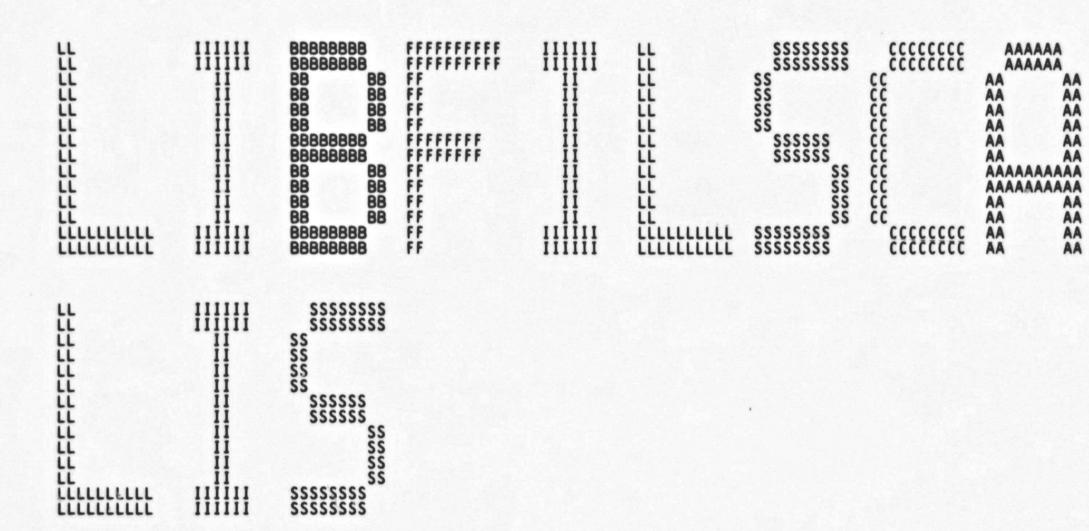
		BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
LLL	HH				
LLL	III	BBB BBB BBB	RRR RRR	111	iii
iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	1111111111	BBBBBBBBBBB	RRR RRR	TTT	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL		88888888888 88888888888	RRR RRR	III	

LI

....

....



VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFILSCA.B32;1 XTITLE 'Search a file wildcard sequence of files'
IDENT = 'V03-024' MODULE LIBSFILESCAN (

BEGIN

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FACILITY: General Utility Library

ABSTRACT:

This module contains routines which can be used to find all files that match a wildcard file specification.

ENVIRONMENT:

VAX/VMS, User mode, Non-AST re-entrant

AUTHOR:

Tim Halvorsen, CREATION DATE: 1-AUG-1979

MODIFIED BY:

V03-024 BLS0331 Benn Schreiber 9-JUL-1984 Remove conditional compilation.

V03-023 BLS0321 Benn Schreiber 22-MAY-1984 If wild version, do not put it on related list over and over.

V03-022 BLS0319 Benn Schreiber for find_file, never use move_default to put at the end. Save address of newly created default nam block for future reference.

V03-021 BLS0317 14-MAY-1984 Benn Schreiber If a new default file spec is seen, put it in the

LIBSFILESCAN VO3-024	Search a file wildcard sequence of files M 11 16-Sep-1984 00:52:15 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:38:49 [LIBRIL.SRCJLIBFILSCA.B32;1]	Page 2
58	0058 1 ! list of related files at current location, not at end.	
61	0061 1 V03-020 BLS0316 Benn Schreiber 13-MAY-1984 0062 1 Remove over-anxious edit in find_file.	
64 65 66	0060 1 0061 1 V03-020 BLS0316 Benn Schreiber 13-MAY-1984 Remove over-anxious edit in find_file. 0063 1 0064 1 V03-019 BLS0313 Benn Schreiber 7-MAY-1984 Fix checking of default string in find_file to correctly decide whether to set default string in FAB. 0067 1 0068 1 V03-018 BLS0308 Benn Schreiber 27-APR-1984	
5901234567890123456789012345678901234567890123456789012345678901	0069 1 In lib\$find_file, fix wildcard version, and passing 0070 1 same filespec twice if nowild not set. Also, in 0071 1 lib\$file_scan_end, allow calling without fab argument.	
73	0072 1 1 0073 1 1 003-017 BLS0307 Benn Schreiber 26-APR-1984 0074 1 Fix use of NOW!LD in lib\$find_file.	
76 77 78	0076 1 V03-016 BLS0297 Benn Schreiber 9-APR-1984 0077 1 Correctly allow changing of the default file specification 0078 1 on new file specs in multi-file parses (lib\$find_file).	
80 81	0080 1 V03-015 BLS0283 Benn Schreiber 6-MAR-1984 0081 1 Don't try to allocate 0-length string in findfile.	
83	0083 1 V03-014 BLS0275 Benn Schreiber 25-FEB-1984 0084 1 Correct parse of null string to clear ESS and RSS	
86 87 88 88	0076 1 V03-016 BLS0297 Benn Schreiber 9-APR-1984 Correctly allow changing of the default file specification on new file specs in multi-file parses (lib\$find_file). 0079 1 0080 1 V03-015 BLS0283 Benn Schreiber 6-MAR-1984 Don't try to allocate 0-length string in findfile. 0081 1 V03-014 BLS0275 Benn Schreiber 25-FEB-1984 Correct parse of null string to clear ESS and RSS 0085 1 V03-013 BLS0264 Benn Schreiber 24-Jan-1984 Add support for multiple input filename stickyness. 0086 1 V03-013 BLS0264 Benn Schreiber 24-Jan-1984 Add support for multiple input filename stickyness. 0087 1 Add new routines to deallocate saved context. Add conditional to compile new interface for V3, for shipment in 3.6. 0090 1 V03-012 BLS0254 Benn Schreiber 19-Dec-1983 Correct handling of null file specs in LIB\$FIND_FILE. 0093 1 V03-010 BLS0243 Benn Schreiber 20-0ct-1983 Fix handling of related nam block for searchlists. 0096 1 V03-010 BLS0198 Benn Schreiber 13-Dec-1982 If non-wildcard call, do a parse of null string to clear RMS internal context.	
. 02	0090 1 0091 1 V03-012 BLS0254 Benn Schreiber 19-Dec-1983 0092 1 Correct handling of null file specs in LIB\$FIND_FILE.	
94 95	0094 1 V03-011 BLS0243 Benn Schreiber 20-Oct-1983 0095 1 Fix handling of related nam block for searchlists.	
97 98 99	0097 1: V03-010 BLS0198 Benn Schreiber 13-Dec-1982 0098 1: If non-wildcard call, do a parse of null string to clear 0099 1: RMS internal context.	
101 102 103	0101 1 V03-009 BLS0174 Benn Schreiber 1-JUN-1982 0102 1 Use lib\$analyze_sdesc_r2 for arguments passed as 0103 1 String descriptors	
93 94 95 96 97 98 100 101 102 103 104 105 106 107 108 109 110	0105 1 V03-008 BLS0133 Benn Schreiber 11-Jan-1982 0106 1 Make lib\$file_scan continue when it gets nopriv. Make 0107 1 lib\$file_scan always copy expanded name string to resultant 0108 1 name string on errors and network non-wild files	
110 111 112	0110 1 V03-007 TMK0001 Todd M. katz 31-Dec-1981 0111 1 Check for a PPF file before doing a \$SEARCH. Do not do 0112 1 searches on PPF files.	
1112	0113 1 : v03-006 MLJ0044 Martin L. Jack, 8-Sep-1981 14:00	

LIBSFILESCAN VO3-024	Search a file	wildcard	sequence of files	N 11 16-Sep-1984 00:52:11 14-Sep-1984 12:38:4	VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFILSCA.B32;1	Page (1
: 115	0115 1 1		Correct problems when	n SPARSE fails.		
117	0117 1 0118 1	v03-005	BLS0071 Benn Correct Looping if p	Schreiber 22-7	Aug-1981 nd_file	
117 118 119 120 121 122 123 124 125 126 127 128 129 130 131	0120 1 0121 1 0122 1	v03-004	BLS0065 Benn Fix handling of devi- saved status into a	Schreiber 4-/ ces mounted foreign, and longword out of the fab	Aug-1981 d move for lib\$find_file.	
124	0124 1 1 0125 1	v03-003	BLS0041 Benn Correct error in cal	Schreiber 23-1 l to lib\$free_vm	Feb-1981	
127	0127 1 1 0128 1	v03-002	BLS0027 Benn Correct protection v	Schreiber 28-1 iolation handling in LIE	Nov-1980 B\$FIND_FILE	
130	0130 1 0131 1	v03-001	LMK0001 Len I Recode in BLISS and	Kawell 19-9 add LIB\$FILE_SEARCH.	Sep-1980	

```
B 12
16-Sep-1984 00:52:15
14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                          Search a file wildcard sequence of files
Declarations
                                                                                                                                                   VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32;1
                                                                                                                                                                                                               Page
     135678901234567890123456789
                          0133
0134
0135
0136
0137
0138
0140
0141
0142
                                       %SBTTL 'Declarations';
                                        SWITCHES
                                                     ADDRESSING_MODE (EXTERNAL = GENERAL,
                                                                                                                                     !Declare addressing modes
                                                                                NONEXTERNAL = WORD_RELATIVE);
                                       LIBRARY
                                                    'RTLSTARLE';
                                                                                                                                     !System symbols
                                       REQUIRE 'RTLIN:RTLPSECT';
                                                                                                                                     !Define PSECT declaration macros
                                        DECLARE_PSECTS (LIB):
                                                                                                                                     !Declare PSECTs for LIB$ facility
                                          LINKAGES:
                                        LINKAGE
                                              JSB_ANALYZE_SDESC = JSB (REGISTER=0; REGISTER=1, REGISTER=2) : NOTUSED (3,4,5,6,7,8,9,10,11);
                                       FORWARD ROUTINE
                                                    COPY_ESL_TO_RSL : NOVALUE,
COPY_FILE_STRING,
DUMMY_ROUTINE,
LIB$FILE_SCAN,
COPY_RESULT_NAME : NOVALUE,
LIB$FIND_FILE;
                                                                                                                        Copies ESL to RSL
Copy file string to VM
Dummy suc/err routine
                           0250
                                                                                                                         Wild card scan using FAB
     !Copy result string
!Wild card scan using context
                                        EXTERNAL ROUTINE
                                                     LIB$ANALYZE_SDESC_R2: JSB_ANALYZE_SDESC,!Analyze string descriptor !Deallocate virtual memory LIB$GET_VM, !Allocate virtual memory LIB$SCOPY_R_DX; !Copy string
                                          Local storage
                          0264
0265
0266
0267
                                       PSECT OWN = _LIB$CODE;
PSECT PLIT = _LIB$CODE;
                                        OWN
                                                     RMSNMF : LONG INITIAL (RMS$_NMF);
                                        BIND
                                                     WILD_VER = UPLIT(';*');
                                           Define the storage context used by LIB$FIND_FILE
                                       LITERAL
                                                    NAM OFF = FABSC BLN,
RNAM OFF = NAM OFF + NAMSC BLN,
ESBUF OFF = RNAM OFF + NAMSC BLN,
RSBUF OFF = ESBUF OFF + NAMSC MAXRSS,
STATUS OFF = RSBUF OFF + NAMSC MAXRSS,
INTFLAGS OFF = STATUS OFF + 4,
DNAM PTR = INTFLAGS OFF + 4,
                                                                                                                           Offset to NAM block
                                                                                                                           Offset to related NAM block
                                                                                                                           Offset to expanded name
                                                                                                                           Offset to result name
                                                                                                                           Offset to next status
Offset to internal flags
Pointer to default string
NAM block
                                                     CONTEXT_SIZE = DNAM_PTR + 4;
                                                                                                                           Total size of structure
```

C 12 16-Sep-1984 00:52:15 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:38:49 [LIBRTL.SRC]LIBFILSCA.B32;1 LIBSFILESCAN VO3-024 Search a file wildcard sequence of files Declarations Page 191 192 193 194 195 Define shared messages !Wildcard filespec and NOWILD set

```
Search a file wildcard sequence of files 16-Sep-1984 00:52:15 COPY_FILE_STRING Copy filename string for next 14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                                                                                                                                                        VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32:1
                                                                                                                                                                                                                      Page
                                         %SBTTL 'COPY_FILE_STRING Copy filename string for next input file parse'; ROUTINE COPY_FILE_STRING(CONTEXT, FAB) =
     This routine copies the file specified by fab$b fns/l fna to a block of memory allocated with lib$get_vm. This block also contains a nam block. These are used on a subsequent call to filescan to provide the related file name(s), and is done this way because RMS needs access to the filename strings of all previous
                                                       file specifications should any of them contain a searchlist.
                                            Inputs:
                                                       Context = 0 or address of context longword passed by user
                                                       fab = address of fab
                                            Outputs:
                                                       The memory is allocated and the block is added into the list of related nam blocks. If no context was passed by the user,
                           0308
                                                       nothing is done.
                           0310
0311
                                            NOTE: If compiling for V3 system, the expanded string from the NAM block is used, rather than fns/fna. Also, the related NAM block (found via NAM$L_RLF) must already point to a valid related
                                                       NAM block.
                           0314
0315
0316
0317
                                         BEGIN
                                         MAP
                                                       FAB : REF $BBLOCK:
                           0318
0319
                                         LOCAL
                           0320
0321
0322
0323
                                                       CTX : REF VECTOR[,LONG],
                                                       STRSIZE,
RNAM : REF $BBLOCK,
                                                       NAM : REF $BBLOCK
                                                       NEWBLOCK : REF $BBLOCK,
                                                       STATUS:
                                            If no context passed by user, then nothing to do.
                                         IF (CTX = .CONTEXT) EQL 0
                                                THEN RETURN 1:
                                            Allocate a block big enough for a NAM block and the filename string
                                         STRSIZE = .FAB[FAB$B_FNS];
STATUS = LIB$GET_VM(ZREF(NAM$C_BLN+.STRSIZE), NEWBLOCK);
IF NOT .STATUS
                                                THEN RETURN .STATUS;
                            0340
                                            Initialize the NAM block, and copy the filename string
                                         CHSMOVE (NAMSC_BLN, FAB[FAB$L_NAM], .NEWBLOCK);
NEWBLOCK[NAM$B_RSL] = .STRSIZE;
NEWBLOCK[NAM$B_RSS] = .STRSIZE;
NEWBLOCK[NAM$L_RSA] = .NEWBLOCK+NAM$C_BLN;
```

```
LIB
VO3
       (3)
Page
```

VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFILSCA.B32;1

```
NEWBLOCK[NAMSB_ESS] = 0;
NEWBLOCK[NAMSB_ESL] = 0;
    2556789012364
2556789012364
                                    CHSFILL(O, NAMSC_DVI, NEWBLOCK[NAMST_DVI]);
CHSMOVE(.STRSIZE,.FAB[FAB$L_FNA],.NEWBLOCK+NAMSC_BLN);
                                      Link this nam/filespec block into the list of blocks
                                    NEWBLOCK[NAM$L RLF] = .CTX[0];
CTX[0] = .NEWB[OCK;
RETURN 1
                                   END:
                                                                                                               .TITLE LIBSFILESCAN Search a file wildcard sequence of
;
                                                                                                                                                files
                                                                                                               .IDENT \V03-024\
                                                                                                               .PSECT
                                                                                                                           _LIB$CODE,NOWRT, SHR, PIC,2
                                                                           000182CA
                                                                                          00000 RMSNMF: .LONG
                                                                                                                           99018
                                                                                          00004 P.AAA:
                                                                        00
                                                                                                                           1; *1<0><0>
                                                                                                               .ASCII
                                                                                                   WILD_VER=
                                                                                                                                 P.AAA
                                                                                                                          LIBSANALYZE_SDESC_R2
LIBSFREE_VM, LIBSGET_VM
LIBSSCOPT_R_DX
                                                                                                               .EXTRN
                                                                                                               .EXTRN
                                                                                                               .EXTRN
                                                                                  OSFC 00000 COPY_FILE_STRING:
                                                                                                                           Save R2,R3,R4,R5,R6,R7,R8,R9
                                                                                                                                                                                                0290
                                                                                     C2
D0
13
                                                          5E
                                                                                          00002
                                                                                                                           #8, SP
                                                                                                               SUBL2
                                                                               CONTEXT, CTX
                                                                                                                                                                                                0330
                                                                                                               MOVL
                                                                                          00009
                                                                                                               BEQL
                                                                                                                          FAB, R8
52(R8), STRSIZE
NEWBLOCK
                                                          58
56
                                                                                     D9999FED2999B2
                                                                                          0000B
                                                                                                                                                                                                0335
                                                                        08
34
04
04
04
                                                                                                               MOVL
                                                                                                               MOVZBL
                                                                                                                                                                                                0336
                                                                                                               PUSHAB
                                                   04
                                                                                                               MOVAB
                                                          AE
                                                                                                                           96(R6), 4(SP)
                                                                                          0001B
                                                                                                               PUSHAB
                                                                                                                           4(SP)
                                                                                                                          #2, LIB$GET_VM
STATUS, 2$
NEWBLOCK, R7
#96, a40(R8),
STRSIZE, 3(R7)
STRSIZE, 2(R7)
96(R7), 4(R7)
10(R7)
                                          0000000G
                                                                                                               CALLS
                                                                                                                                                                                                0337
0342
                                                                                                               BLBC
                                                                                                               MOVL
                                                          88
A7
A7
A7
                                     67
                                                                     0060
                                                                                                               MOVC3
                                                                                                               MOVB
                                                                                                               MOVB
                                                                                                               MOVAB
                                                                                                               CLRW
                10
                                     00
                                                          6E
                                                                                                               MOVC5
                                                                                                                           #0, (SP), #0, #16, 20(R7)
                                                                                                                          STRSIZE, @44(R8), 96(R7)
(CTX), 16(R7)
R7, (CTX)
#1, R0
                                                                                     28 00 00 00 00 00
                                                                                                               MOVC3
                              60
                                                   2C
                                                                                                               MOVL
                                                          69
                                                                                                               MOVL
                                                                                                               MOVL
```

Search a file wildcard sequence of files 16-Sep-1984 00:52:15 COPY_FILE_STRING Copy filename string for next 14-Sep-1984 12:38:49

; Routine Size: 91 bytes, Routine Base: _LIB\$CODE + 0008

LIBSFILESCAN VO3-024

```
LIE
VO3
```

Page

```
Search a file wildcard sequence of files 16-Sep-1984 00:52:15 COPY_ESL_TO_RSL Copy Expanded Name String to Re 14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                                                                                                                                                VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32:1
                                       %SBTTL 'COPY_ESL_TO_RSL Copy Expanded Name String to Resultant';
ROUTINE COPY_ESL_TO_RSL(FAB,NAM): NOVALUE =
    This routine sets up the resultant name string data in the NAM block. It is called in the case of an error from $PARSE/$SEARCH, or on network non-wild
                                                    card operations.
                                          Inputs:
                                                    FAB = FAB address
NAM = NAM address
                                          Outputs:
                                                    NAMSB_RSL setup with length of string copied into
                                                    resultant name string buffer pointed to by NAM$L_RSA.
                                       BEGIN
                                       MAP
                                                                 REF BLOCK[,BYTE];
                                                                                                                      ! FAB structure ! NAM structure
                                                    FAB:
                                                    NAM:
                                       IF .NAM[NAM$B RSL] EQL 0 ! If name not set up
THEN IF (NAM[NAM$B RSL] = .NAM[NAM$B ESL]) NEQ 0 ! If expanded string present
THEN CH$MOVE(MINU(.NAM[NAM$B_RSS],
                                                                  .NAM[NAM$B_ESL]),! then use it
                                                    ELSE BEGIN
                                                                                                                        No expanded string, use the filename string from FAB
                                                          NAMENAMSB RSL] = .FAB[FABSB FNS]; ! the file
CHSMOVE(MINU(.NAMENAMSB RSS],.FAB[FABSB FNS]),
.FAB[FABSL_FNA],.NAMENAMSL_RSA]);
                                                    END;
                                       RETURN:
                                       END:
```

		007C 00000	COPY_ESL_TO_RSL	Save D2 D7 D/ D5 D4	. 0359
	56	08 AC DO 00002 03 A6 95 00006 39 12 00009	MOVL TSTB	Save R2,R3,R4,R5,R6 NAM, R6 3(R6) 4\$; 0358 ; 0381
03	A6 (0B A6 90 0000B 15 13 00010	MOVB REOL	11(R6), 3(R6) 2\$	0382
	51 51	02 A6 9A 00012 0B A6 91 00016	MOVZBL CMPB	2(R6), R1 11(R6), R1	0384
04 B6 OC	51 86	08 A6 9A 0001C 51 28 00020 04 00026	MOVL TSTB BNEQ MOVB BEQL MOVZBL CMPB BGEQU MOVZBL MOVZBL MOVZBL RET	11(R6), R1 R1, a12(R6), a4(R6)	0385 0383 0387
03	50 A6 51	04 AC DO 00027 34 AO 90 00028 02 A6 9A 00030	2\$: MOVL MOVB MOVZBL	FAB, RO 52(RO), 3(R6) 2(R6), R1	0387

; Routine Size: 69 bytes, Routine Base: _LIB\$CODE + 0063

. .

LIBSFILESCAN Search a file wildcard sequence of files DUMMY_ROUTINE Dummy success/error routine VAX-11 Bliss-32 V4.0-742 LIBRTL.SRCJLIBFILSCA.B32;1 : 303 : 304 0393 1 %SBTTL 'DUMMY_ROUTINE Dummy success/error routine'; 0394 1 ROUTINE DUMMY_ROUTINE = RETURN 1;

0000 00000 DUMMY_ROUTINE:
.WORD
1 D0 00002 MOVL
04 00005 RET 01 D0 00002 04 00005

Save nothing #1, RO

; Routine Size: 6 bytes, Routine Base: _LIB\$CODE + 00A8

50

: 0394

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VO:

```
Search a file wildcard sequence of files 16-Sep-1984 00:52:15
PARSE_NULL_STRING Parse null string to dealloca 14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                                                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32:1
                                                                                                                                                                                                                                                                                                 (6)
                                                      %SBTTL 'PARSE_NULL_STRING Parse null string to deallocate RMS context'; ROUTINE PARSE_NULL_STRING(FAB) =
       306
307
308
309
310
                                    033978901234567890112345678900044233456789000443334567890004433345678900044333456789000443334567890004433345678900043334567890004333456789000433345678900043334567890004333456789000433345678900043334567890004433345678900044333456789000443334567890004433345678900044333456789000443334
                                                                       Parse the null string to force RMS to deallocate any context saved by NAM$V_SVCTX
      Inputs:
                                                                        fab = address of the fab
                                                          Implicit outputs:
                                                                        SPARSE done on the fab to deallocate saved context
                                                     BEGIN
                                                      MAP
                                                                       FAB : REF $BBLOCK:
                                                     LOCAL
                                                                       NAM : REF $BBLOCK;
                                                          Set up to parse the null string
                                                     NAM = .FAB[FAB$L_NAM];
IF .NAM NEQ 0
THEN BEGIN
                                                                      NAMENAMSV_SVCTX] = 0;

NAMENAMSV_SYNCHK] = 1;

NAMENAMSB_ESL] = 0;

NAMENAMSB_ESL] = 0;

NAMENAMSB_ESS] = 0;

NAMENAMSB_ESS] = 0;

NAMENAMSB_RSS] = 0;

NAMENAMSB_RSS] = 0;
                                                                                                                                               !In case of network SET DEFAULT
                                                    FAB[FAB$B_FNS] = 0;
FAB[FAB$B_DNS] = 0;
$PARSE(FAB=.FAB);
                                                      RETURN 1
                                                     END:
                                                                                                                                                                      .EXTRN SYSSPARSE
                                                                                                                           0000 00000 PARSE_NULL_STRING:
                                                                                                                                                                                       Save nothing
FAB, R1
40(R1), NAM
                                                                                                                                                                                                                                                                                               0396
                                                                                                                                      00002
00006
0000A
0000C
00011
00015
00018
0001E
00021
                                                                                        51
                                                                                                                                                                      MOVL
                                                                                                                                                                      MOVL
                                                                                                                       A1
12
8F
08
A0
A0
A1
51
                                                                                                                                                                     BEQL
BICB2
BISB2
CLRW
CLRW
CLRW
CLRW
PUSHL
                                                                                                                                                                                       #128, 51 (NAM)
#8, 8 (NAM)
2 (NAM)
                                                                                                                                10(NAM)
16(NAM)
52(R1)
R1
```

LII

LIBSFILESCAN Search a file wildcard sequence of files 16-Sep-1984 00:52:15 VAX-11 BLT V03-024 PARSE_NULL_STRING Parse null string to dealloca 14-Sep-1984 12:38:49 [LIBRTL.SF 00000000G 00 01 FB 00023 CALLS #1, SYS\$PARSE 01 D0 0002A MOVL #1, R0

VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFILSCA.B32;1

0433

Page 12 (6)

LII

; Routine Size: 46 bytes, Routine Base: _LIB\$CODE + OOAE

```
Search a file wildcard sequence of files 16-Sep-1984 00:52:15
PARSE_NULL_STRING Parse null string to dealloca 14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                                                                                                                                 VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32;1
                                                                                                                                                                                      Page 13 (7)
                                   ROUTINE MOVE_DEFAULT_STRING(CONTEXT, FAB, DNMPTR) =
                       Move the default string from the FAB to a NAM block at the end of the related NAM block list.
                                      Inputs:
                                               context = address of context longword
                                               fab = fab address
                                               dnmptr = (optional) address of longword to store nam block address
                                      Outputs:
                                              fab[fab$b_dns] zeroed. Default name string copied into allocated
nam block which is linked at the end of the related file blocks.
                                   BEGIN
                                   MAP
                                              CONTEXT : REF VECTOR[,LONG],
FAB : REF $BBLOCK,
                                              DNMPTR : REF VECTOR[,LONG]:
                                   BUILTIN
                                              NULLPARAMETER:
                                   LOCAL
                                              STATUS,
PNAM : REF $BBLOCK,
RNAM : REF $BBLOCK,
                                               TNAM : REF $BBLOCK:
                                   IF .FAB[FAB$B_DNS] EQL 0
                                   THEN
                                              RETURN 1;
                                     Search the NAM blocks looking for a default file string block (noted by [NAM$B_ESS] = %X'OD') and see if that string is same as new string. Return successfully if so. If not,
                                      then deallocate the one from the list, as we need a new block.
                                   TNAM = CONTEXT[0] - $BYTEOFFSET(NAM$L_RLF);
                                   PNAM = .TNAM;
WHILE .TNAM[NAM$L_RLF] NEQ 0
                                   DO
                                              BEGIN
                                              PNAM = .TNAM;
TNAM = .TNAM[NAM$L RLF];
IF .TNAM[NAM$B_ESS] EQL %x'OD'
                                                          BEGIN
                                                          IF CHSEQL(.FABCFABSB_DNS],.FABCFAB$L_DNA],
.TNAMCNAMSB_RSL],.TNAMCNAMSL_RSA],0)
                                                                      BEGIN
FABCFAB$B_DNS] = 0;
                                                           THEN
                                                                       RETURN 1;
                                                          LIBSFREE_VM(%REF(NAMSC_BLN + .TNAM[NAMSB_RSL]), %REF(.TNAM));
PNAM[NAMSL_RLF] = 0;
```

LI

......

```
Search a file wildcard sequence of files 16-Sep-1984 00:52:15
PARSE_NULL_STRING Parse null string to dealloca 14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32;1
                                                                                                                                                                                                                                               Page
                                                                             EXITLOOP;
END;
     404
405
406
407
408
410
411
                                                              END:
                             0496
0497
0498
0499
0501
0502
0503
0506
0507
0508
0511
                                                  Allocate a NAM+string block
                                             STATUS = LIB$GET_VM(%REF(NAM$C_BLN+.FAB[FAB$B_DNS]),RNAM);
IF NOT .STATUS
THEN
                                                             RETURN .STATUS:
                                                 Link into the list, initialize the NAM block, copy the default name string.
                                             PNAM[NAM$L RLF] = .RNAM;
$NAM_INIT(NAM=.RNAM,
                                             RSA=.RNAM+NAM$C_BLN);
RNAM[NAM$B_RSL] = .FAB[FAB$B_DNS];
RNAM[NAM$B_ESS] = %X'OD'; !Identify it as default string nam block
CH$MOVE(.FAB[FAB$B_DNS],.FAB[FAB$L_DNA],.RNAM+NAM$C_BLN);
FAB[FAB$B_DNS] = 0;
IF NOT NUCLPARAMETER(3)
                                                             DNMPTR[0] = .RNAM;
                                              RETURN 1
                                              END:
                                                                                                         O1FC 00000 MOVE_DEFAULT_STRING:
.WORD Save
C2 00002 SUBL2 #12.
                                                                                                                                                             Save R2,R3,R4,R5,R6,R7,R8
#12, SP
FAB, R7
53(R7), R8
                                                                                                                                                                                                                                                       0435
                                                                                                      0AA6215A45AAE6A5B0675AA8A
                                                                                                             C2099533
                                                                                                                                              MOVL
                                                                                                                                                                                                                                                       0467
                                                                                                                                               MOVAB
                                                                                                                                                               (R8)
                                                                                                                                               TSTB
                                                                                                                   0000F
0000F
00011
00016
00019
0001C
0001E
00021
                                                                                                                                              BEQL
                                                54
                                                                                                                                                             #16, CONTEXT, TNAM
TNAM, PNAM
16(TNAM)
                                                                                                                                                                                                                                                      0476
0477
0478
                                                                           AC
55
                                                                                                                                               SUBL 3
                                                                 04
                                                                                                                                               MOVL
                                                                                                                                               TSTL
                                                                                            10
                                                                                                                                              BEQL
                                                                                                                                                              TNAM, PNAM
16(TNAM), TNAM
10(TNAM), #13
                                                                                                                                                                                                                                                      0480
0481
0482
                                                                           55
54
0D
                                                                                                                                               MOVL
                                                                                                              00
91
12
9A
9A
2D
                                                                                                                                               MOVL
                                                                                                                                               CMPB
                                                                                                                                              BNEQ
                                                                           51
50
B7
                                                                                                                                                             (R8), R1
3(TNAM), R0
R1, a48(R7), #0, R0, a4(TNAM)
                                                                                                                                                                                                                                                      0484
0485
0484
                                                                                                                                               MOVZBL
                                                                                            03
                                                                                                                                               MOVZBL
                     50
                                                                 30
                                                00
                                                                                                                                               CMPC5
                                                                                            04
                                                                                                                                                              3$
(R8)
                                                                                                                                              BNEQ
                                                                                                                                                                                                                                                      0487
0488
0490
                                                                                                                                               CLRB
                                                                                                                                               BRB
                                                                                                                                                             TNAM, 4(SP)
4(SP)
3(TNAM), 4(SP)
#96, 4(SP)
4(SP)
                                                                                                              9F
9A
CO
9F
                                                                                                                                               MOVL
                                                                                                                                              PUSHAB
                                                                                                                                              MOVZBL
ADDL2
```

PUSHAB

LI VO

LIBSFILESCAN VO3-024	Search PARSE_N	a fi	le wildcard STRING Pars	se e n	quence of ull string	files	eal	loca 1	M 12 6-Sep 4-Sep	-1984 00:52 -1984 12:38	:15	VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFILSCA.B32;1	Pag	ge (7)
			00000000G 08 08	00 AE AE	10 08	02 A5 AE 68 8F	FB 04 9F 9A CO	00057 0005E 00061 00064 00068	48:	CALLS CLRL PUSHAB MOVZBL ADDL2	#2, 16(RNA (R8 #96	LIB\$FREE_VM PNAM) M (), 8(SP) (, 8(SP)		0491 0498
			00000000G 10	00 3E 56 A5 6E	08	AE 050 AE 500	9F FB E9	00070 00073 0007A 0007D		MOVZBL ADDL2 PUSHAB CALLS BLBC MOVL MOVL MOVC5	STÁ	LIB\$GET_VM TUS, 6\$ IM, R6 16(PNAM) (SP), #0, #96, (R6)		0499 0505
0060 8F		00			6002	66 8F	00 20 80 9E	00085 00080 0008D 00092		MOVAR				0507
	60	A6	04 03 0A 30	66 A6 A6 50 B7		A68 008 508 609	90 90 9A 28	00097 0009B 0009F 000A2 000A8		MOVB MOVB MOVZBL MOVC3	(R8 #13 (R8 R0,	578, (R6) R6), 4(R6)), 3(R6) , 10(R6) , R0 a48(R7), 96(R6)		0508 0509 0510
				03	ОС	68 60 9 AC	94 91 1F D5	000A8 000AD 000AF 000B2		MOVB MOVB MOVZBL MOVC3 CLRB CMPB BLSSU TSTL BEQL	5\$ 12(AP)		051 051
			00	BC 50		AC 04 56 01	13 00 04	000B2 000B4 000B8 000BB	5\$:	BEQL MOVL MOVL RET	5\$ R6. #1,	aDNMPTR RO		0514 0515 0516

LIE VO

; Routine Size: 188 bytes, Routine Base: _LIB\$CODE + 00DC

```
Search a file wildcard sequence of files 16-Sep-1984 00:52:15
LIB$FILE_SCAN File scan given FAB and NAM block 14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32;1
                                                                                                                                                                                                                                         Page
                                             %SBTTL 'LIB$FILE_SCAN file scan given FAB and NAM block';
GLOBAL ROUTINE LIB$FILE_SCAN(FAB, SUCCESS_RTN, ERROR_RTN, CONTEXT) =
     This routine is called with a wildcard file specification and calls a specified set of action routines for each file and/or error found in the wildcard sequence. Certain errors are checked for in order to allow the search sequence to be completed even though errors like nopriv are present. Stickyness is also handled if this routine is called once for each file specification parameter in a command line.
                                                Inputs:
                                                                                          s. FAB$L_NAM must point to a valid, initialized NAM block with both expanded and resultant string
                                                           FAB = FAB address.
                                                           the allocated context.
                                                Implicit inputs:
                                                           The FAB must be initialized as a FAB with a pointer to a valid NAM block.
                                                Outputs:
                                                           The action routines are called appropriately. routine returns when there are no more files.
                                                Implicit outputs:
                                                Routine values:
                                                            Any valid RMS status code
                                             BEGIN
                                             GLOBAL BIND
                                                           FMG$FILE_SCAN = LIB$FILE_SCAN; ! Define old name
                                             LOCAL
                                                            STATUS,
SUC_ROUTINE,
ERR_ROUTINE,
CTX,
                                                                                                                           Routine status
Address of success routine
Address of error routine
Address of context longword
```

LI

```
Search a file wildcard sequence of files 16-Sep-1984 00:52:15
LIBSFILE_SCAN File scan given FAB and NAM block 14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                                                                                                                                          VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32:1
                                                                                                                                                                                                   Page
                                                  NAM : REF $BBLOCK,
TNAM : REF $BBLOCK,
RNAM : REF $BBLOCK;
                                                                                                       NAM block address
Temporary NAM block pointer
Related file NAM block address
    MAP
                                                  FAB:
                                                              REF BLOCK[.BYTE]:
                                                                                                    ! FAB structure address
                                     BUILTIN
                                                  AP, CALLG, NULLPARAMETER;
                                     MACRO CALL_SUCCESS = (CALLG(.AP,.SUC_ROUTINE))%;
                                     MACRO CALL_ERROR = (CALLG(.AP,.ERR_ROUTINE))%;
                                        Set up error and success routines
                                     SUC_ROUTINE = DUMMY_ROUTINE;
ERR_ROUTINE = .SUC_ROUTINE;
IF NOT NULLPARAMETER(2)
                                     IF NOT NULLPARAMETER(3)
                                     THEN
                                                  ERR_ROUTINE = .ERROR_RTN;
                                        Tell RMS to save context over calls to speed things up. This also causes directories to be read by RMS instead of the ACP.
                                     NAM = .FAB[FAB$L_NAM];
NAM[NAM$V_SVCTX] = 1;
                         0604
0605
0606
0607
0608
0609
0610
0612
0613
0614
0615
0618
0619
0620
                                     CTX = 0:
                                        Set up previous file specifications NAM list pointer
                                     IF NOT NULLPARAMETER(4)
                                                 BEGIN
CTX = .CONTEXT;
NAM[NAM$L_RLF] = ..CTX;
                                                                                                     !Get address of context longword
                                                                                                    !Set related nam block pointer
                                        Parse the file spec
                                     FAB[FAB$V_NAM] = 0;
STATUS = $PARSE(FAB = .FAB);
IF NOT .STATUS
                                                                                                    !Clear in case previously set
                                     THEN
                                                  BEGIN
                                                  COPY_ESL_TO_RSL(.FAB,.NAM);
CALL_ERROR;
COPY_FILE_STRING(.CTX,.FAB);
RETURN .STATUS;
                                                  END:
                                     FAB[FAB$V_NAM] = 1;
                                                                                                    ! Use NAM block
                                        Copy the default file string to the end of the nam block list if we have a context block.
                                     IF (.CTX NEQ O)
```

LIE VO

```
Search a file wildcard sequence of files 16-Sep-1984 00:52:15
LIBSFILE_SCAN File scan given FAB and NAM block 14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                                                                                                                                                                VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32;1
                                                                                                                                                                                                                                  Page 18 (8)
                                            THEN IF (..CTX EQL 0)
     MOVE_DEFAULT_STRING(.CTX,.FAB);
                                               Handle the case of being called with a related NAM block, but not the context block. In this case, we save the expanded filename string. This will provide the functionality seen in V4FT1.
                                           RNAM = .NAMINAM$L RLF];
IF (.NAMINAM$B_ESE] NEQ 0)
AND (.RNAM NEQ 0)
                                           AND (.CTX EQL 0)
THEN BEGIN
                                                          LOCAL
                                                                         STATUS_1;
                                                           IF .RNAM[NAM$B_RSL] NEQ 0
                                                                                                                     !Deallocate any previous
                                                          THEN
                                                          LIB$FREE_VM(%REF(.RNAM[NAM$B_RSL]),RNAM[NAM$L_RSA]);
RNAM[NAM$B_RSL] = .NAM[NAM$B_ESL];
STATUS_1 = LIB$GET_VM(%REF(.RNAM[NAM$B_RSL]),RNAM[NAM$L_RSA]);
IF_NOT_.STATUS_1
                                                          THEN
                                                          RETURN .STATUS 1;
CH$MOVE(.RNAM[NAM$B_RS[],.NAM[NAM$L_ESA],.RNAM[NAM$L_RSA]);
                                                          END:
                                            FAB[FAB$B_DNS] = 0:
                                                                                                                     ! Clear default name string
                                               If a wildcard version number was specified on this filespec
                                               (via either FNM or DNM), then leave dnm set to ';*' so that the version will be sticky. This is because RMS does not copy the version field from related file name string.
                                           IF .NAM[NAM$V_WILD_VER]
                                           THEN
                                                          BEGIN
                                                          FAB[FAB$B_DNS] = %CHARCOUNT(';*');
FAB[FAB$L_DNA] = WILD_VER;
                                               If the device is non-directory structured, then simply return
                                               to the caller's success action routine with the spec and avoid the SEARCH sequence. Also avoid the SEARCH sequence if the file is a PPF file.
                                           if NOT .(FAB[FAB$L_DEV]) < $BITPOSITION(DEV$V_DIR),1>
AND NOT .NAM[NAM$V_NODE]
OR .(FAB[FAB$L_DEV]) < $BITPOSITION(DEV$V_FOR),1>
OR .NAM[NAM$V_PPF]
                                           THEN
                                                          BEGIN
                                                          COPY_ESL_TO_RSL(.FAB,.NAM);
CALL_SUCTESS;
COPY_FILE_STRING(.CTX,.FAB);
RETURN .STATUS;
                                                          END:
                                               If the file specification is non-wild, then SEARCH once to get the FID/DID filled in and do not repeat the search.
```

```
LIBSFILESCAN
VO3-024
                              Search a file wildcard sequence of files 16-Sep-1984 00:52:15
LIBSFILE_SCAN File scan given FAB and NAM block 14-Sep-1984 12:38:49
                                                                                                                                                                    VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32;1
                                                                                                                                                                                                                                        Page
                                                If no wildcard in a network spec, no need for search.
                              0688
0689
0691
0693
0693
0694
0696
0698
0701
0703
0704
0706
0707
0708
                                             IF NOT .NAM[NAM$V_WILDCARD]
                                             THEN
                                                            BEGIN
                                                            IF NOT .NAM[NAM$V_NODE]
                                                            THEN
                                                                           BEGIN
                                                                           STATUS = $SEARCH(FAB = .FAB);
IF NOT .STATUS
                                                                                       .STATUS
                                                                           THEN
                                                                                          BEGIN
                                                                                         COPY_ESL_TO_RSL(.FAB,.NAM);
CALL_ERROR;
COPY_FILE_STRING(.CTX,.FAB);
RETURN .STATUS;
                                                                                          END:
                                                            ELSE COPY ESL_TO_RSL(.FAB,.NAM);
CALL_SUCCESS;
COPY_FILE_STRING(.CTX,.FAB);
RETURN .STATUS;
     END:
                                                Search for the each file which matches the wildcard sequence. If success call success action routine and continue. If no more files, quit. If other error, call the error action routine and if not a wildcard directory or failure wasn't no privilege, then quit.
                              0710
0711
0712
0713
0714
0715
0716
0717
0718
                                            DO
                                                            BEGIN
STATUS = $SEARCH(FAB = .FAB);
                                                           IF .STATUS
THEN CAL
ELSE BEG
                                                                          CALL SUCCESS
BEGIN
                                                                           IF .STATUS EQLU .RMSNMF
THEN BEGIN
                                                                                          COPY FILE STRING(.CTX,.FAB);
RETURN .STATUS
                                                                           ELSE
                                                                                          COPY_ESL_TO_RSL(.FAB,.NAM);
CALL_ERROR;
                                                                                             Quit if not a wildcard directory or system status
                                                                                             not NOPRIV.
                                                                                          IF NOT .NAM[NAM$V_WILD_DIR]
OR .FAB[FAB$L_STV] NEGU SS$_NOPRIV
                                                                                                        BEGIN
                                                                                                        COPY FILE STRING(.CTX,.FAB);
RETURN .STATUS;
                                                                                          IF .FAB(FAB$L_STV] EQL SS$_NOPRIV
THEN STATUS = 1;
                                                                                          END:
                                                                           END:
                                             UNTIL NOT .STATUS;
```

LII

658 659 660

0745 2 COPY_FILE_STRING(.CTX,.FAB); 0746 2 RETURN .STATUS 0747 1 END;

P 14 5		CHARACTARALL
P W		CACECPUBLE
.EXI	LAIA	SYS\$SEARCH

						.EXTRN	SYS\$SEARCH	
			OF	FC 00000		.ENTRY	LIB\$FILE_SCAN, Save R2,R3,R4,R5,R6,R7,R8,- R9,R10,R11	: 0518
	5E 5A 5B 02	FF07	09	C2 00002 9E 00005 D0 0000A 91 0000D 1F 00010 D5 00012 13 00015		SUBL2 MOVAB MOVL CMPB BLSSU TSTL	R9,R10,RT1 #4, SP DUMMY ROUTINE, SUC ROUTINE SUC_ROUTINE, ERR_ROUTINE (AP), #2 1\$ 8(AP)	0590 0591 0592
	5A 03	08 00	AC 6C 09	D5 00012 13 00015 D0 00017 91 0001B 1F 0001E D5 00020 13 00023	1\$:	MOVL CMPB BLSSU TSTL	1\$ SUCCESS_RTN, SUC_ROUTINE (AP), #3 2\$ 12(AP)	0594 0595
33	5B 52 56 A6	00 04 28 80	AC	13 00023 D0 00025 D0 00029 D0 0002D 88 00031 D4 00036	2\$:	MOVL MOVL MOVL BISB2	2\$ ERROR_RTN, ERR_ROUTINE FAB, R2 40(R2), NAM #128, 51(NAM) CTX	0597 0602
	04	10	6C	91 00038 1F 0003B D5 0003D 13 00040		CLRL CMPB BLSSU TSTL BEQL	(AP), #4 3\$ 16(AP) 3\$	0604
10 07	58 A6 A2	10	AC 68 01 52	DO 00042 DO 00046 BA 0004A	3\$:	MOVL MOVL BICB2 PUSHL CALLS	CONTEXT, CTX (CTX), 16(NAM) #1, 7(R2)	: 0610 : 0611 : 0616 : 0617
0000000G	00 59 0F	0044	50 59 8F	DD 0004E FB 00050 DO 00057 E8 0005A BB 0005D		BLBS PUSHR	#1, SYS\$PARSE RO, STATUS STATUS, 5\$ #^M <r2,r6> #2, COPY_ESL_TO_RSL (AP), (ERR_ROUTINE) 20\$</r2,r6>	0618
FE65	CF 6B	^,	02 6C 010A	FB 00061 FA 00066 31 00069	48:	CALLS CALLG BRW		0622
07	57 A7	04	AC 01 58 00	31 00069 D0 0006C 88 00070 D5 00074 13 00076 D5 00078	5\$:	MOVL BISB2 TSTL BEQL TSTL	FAB, R7 #1, 7(R7) CTX 6\$	0630
FEBF	CF 52	10 0B	57 58 02 A6 44 52	D5 00078 12 0007A DD 0007C DD 0007E FB 00080 D0 00085 95 00089 13 0008C D5 00092		TSTL BNEQ PUSHL PUSHL CALLS MOVL TSTB BEQL TSTL BEQL TSTL	6\$ (CTX) 6\$ R7 CTX #2, MOVE_DEFAULT_STRING 16(NAM), RNAM 11(NAM) 9\$ RNAM 9\$ CTX	0631 0633 0639 0640 0641 0642
			,0	00072				, 3012

0.00000000	Search a	file wildcard	I sequence of an given FAB	files and NAM blo	F 13 16-Sep-199 ock 14-Sep-199	84 00:52:1 84 12:38:4	15 VAX-11 Bliss-32 V4.0-742 49 [LIBRTL.SRC]LIBFILSCA.B32;1	Page 21 (8)
04 AE 03 A2 9A 0009B PUSHAB 4(RNAM) 0649 00000000G 00 02 FB 000A5 PUSHAB 4(SP) 0650 03 A2 0B A6 90 000A7 S: MOVB 11 (NAM) 3 (RNAM) 0650 04 AE 03 A2 9A 000B5 MOVZBL 3(RNAM) 4(SP) 00000000G 00 02 FB 000A6 (ALLS W2, LIB\$FREE VM 04 AE 03 A2 9A 000B5 MOVZBL 3(RNAM) (SP) 00000000G 00 02 FB 000BA PUSHAB 4(SP) 01 50 EB 000C4 BLBS STATUS_1, 8\$ 0652 04 B2 0C B6 50 28 000C4 RET 04 B2 0C B6 50 28 000C4 MOVZBL 3(RNAM), RO 0655 00 3 A2 9A 000C8 8S: MOVZBL 3(RNAM), RO 00 85 MOVZBL 3(RNAM), RO 0655 00 03 A2 9A 000C8 8S: MOVZBL 3(RNAM), RO 0655 00 03 A2 9A 000C8 BS: MOVZBL 3(RNAM), RO 0656 00 3 A2 9A 000C8 BS: MOVZBL 3(RNAM), RO 0657 08 36 A6 02 90 000DA MOVZBL 3(RNAM), 10\$ 0667 08 36 A6 02 90 000DA MOVZBL 3(RNAM), 10\$ 0667 08 36 A6 01 E1 000E9 BBC M2, 53(R7) 0667 08 36 A6 E9 000F2 BBS M3, 54(RNAM), 12\$ 0676 08 36 A6 E9 000F2 BBS M3, 54(RNAM), 12\$ 0678 09 000DA MOVZBL 3(RNAM), 12\$ 0678 0680 FDCC CF 02 FB 000F4 13\$: BLBS 53(NAM), 17\$ 0680 18 36 A6 E8 00101 14\$: BLBS 53(NAM), 17\$ 0690 18 36 A6 E8 00101 14\$: BLBS 53(NAM), 15\$ 0690			03	3C 12 0	0094	BNEQ S	9\$ 3(RNAM)	: 0647
29 35 A6 E8 00101 14\$: BLBS 53(NAM), 17\$: 0690				12 13 0 A2 9F 0	0000	PUSHAB	7\$ 4(RNAM)	:
29 35 A6 E8 00101 14\$: BLBS 53(NAM), 17\$: 0690			AE 03	AZ 9A 0 AE 9F 0	009E	MOVZBL :	4(SP)	
29 35 A6 E8 00101 14\$: BLBS 53(NAM), 17\$: 0690			00 A2 OB	02 FB 0 A6 90 0	100AD 75:	MOVB	W2, LIB\$FREE VM 11(NAM), 3(RNAM)	: 0650
29 35 A6 E8 00101 14\$: BLBS 53(NAM), 17\$: 0690		04	AE 03	A2 9F 0	00B2 00B5	PUSHAB MOVZBL	4(RNAM) 3(RNAM), 4(SP)	: 0651
29 35 A6 E8 00101 14\$: BLBS 53(NAM), 17\$: 0690		0000000G	00 01	AE 9F 0 02 FB 0 50 E8 0	000BA 000BD 000C4	PUSHAB CALLS BLBS	4(SP) W2. LIB\$GET_VM	0652
29 35 A6 E8 00101 14\$: BLBS 53(NAM), 17\$: 0690			50 03	A2 9A 0	000C7 000C8 8\$:			
29 35 A6 E8 00101 14\$: BLBS 53(NAM), 17\$: 0690	04	B2 OC	35	50 28 0 A7 94 0	000CC 000D2 9\$:	MOVC3	RO, @12(NAM), @4(RNAM) 53(R7)	
29 35 A6 E8 00101 14\$: BLBS 53(NAM), 17\$: 0690		0A 34	A6 A7	03 E1 0	0005 000A	RRC	FS 52(NAM) 10%	: 0664
29 35 A6 E8 00101 14\$: BLBS 53(NAM), 17\$: 0690		05 40	A7 FD8A	CF 9E 0	000E 000E4 10\$:	MOVAB I	WILD_VER, 48(R7) #3. 64(R7), 11\$: 0667
29 35 A6 E8 00101 14\$: BLBS 53(NAM), 17\$: 0690		08 36	A6 04 43	01 E1 0	000E9	BBC	#1, 54(NAM), 12\$ 67(R7), 12\$: 0676
29 35 A6 E8 00101 14\$: BLBS 53(NAM), 17\$: 0690			0B 36	A6 E9 0	000F2	BLBC !	54 (NAM), 14\$: 0678
29 35 A6 E8 00101 14\$: BLBS 53(NAM), 17\$: 0690		FDCC	CF	57 DD 0	00F8 00FA 13\$:	PUSHL	R7	
18 36 A6 01 E0 00105 BBS #1, 54(NAM), 15\$ 0692 00000000 00 01 FB 0010D CALLS #1, SYS\$SEARCH 59 00 00114 MOVL RO, STATUS 00 00 01 FB 00101 PUSHL NAM 04 AC DD 0011C PUSHL NAM 05 04 AC DD 0011C PUSHL NAM 0697 0697 0703 08 11 00122 15\$: PUSHL NAM 09 11 10 00127 BRB 13\$ 08 10 11 00127 BRB 13\$ 08 10 11 00127 BRB 13\$ 09 10 11 00127 BRB 13\$ 00000000 00 01 FB 00131 CALLS #1, SYS\$SEARCH 00000000 00 01 FB 00131 CALLS #1, SYS\$SEARCH 00000000 00 00 01 FB 00131 CALLS #1, SYS\$SEARCH 00000000 00 01 FB 00131 CALLS #1, SYS\$SEARCH 000000000 00 00 00 00138 BBBC STATUS, 18\$ 00715 00717				28 11 0 A6 F8 0	000FF 00101 14\$:	BRB	16\$ 53(NAM) . 17\$	0690
00000000G 00 01 FB 0010D CALLS #1, SYS\$SEARCH 59 50 D0 00114 MOVL R0, STATUS 0F 59 E8 00117 BLBS STATUS, 16\$ 0697 04 AC DD 0011C PUSHL FAB 56 DD 00122 15\$: PUSHL NAM 04 AC DD 00124 PUSHL FAB D1 11 00127 BRB 13\$ 6A 6C FA 00129 16\$: CALLG (AP), (SUC_ROUTINE) 48 11 0012C BRB 20\$ 00000000G 00 01 FB 00131 CALLS #1, SYS\$SEARCH 59 50 D0 00138 BLBC STATUS, 18\$ 0705 6A 6C FA 0013E CALLG (AP), (SUC_ROUTINE) 59 50 D0 00138 BLBC STATUS, 18\$ 0716 6A 6C FA 0013E CALLG (AP), (SUC_ROUTINE) 59 50 D0 0013B BLBC STATUS, 18\$ 0717 FD20 CF 59 E9 0013B BLBC STATUS, RMSNMF 0719		18 36	A6	01 E0 0	0105 010A	BBS	#1, 54(NAM), 15\$: 0692
0f 59 E8 00117 BLBS STATUS, 16\$ 0695 04 AC DD 0011A PUSHL NAM 0697 04 AC DD 0011F BRW 4\$ 4\$ 56 DD 00122 15\$: PUSHL NAM 0703 04 AC DD 00124 PUSHL FAB 0703 6A AC FA 00127 BRB 13\$ 0705 6A AC FA 00129 16\$: CALLG (AP), (SUC_ROUTINE) 0705 04 AC DD 0012E 17\$: PUSHL FAB 0715 00000000G 00 01 FB 0031 CALLS M1, SYS\$SEARCH 0715 05 59 E9 0013B BLBC STATUS, 18\$ 0716 6A 6C FA 00141 BRB 19\$ 6A 6C FA 00143 BRB		0000000G	00	01 FB 0	010D 0114	CALLS	#1. SYS\$SEARCH	
04 AC DD 0011C PUSHL FAB FF3F 31 0011F BRW 4\$ 56 DD 00122 15\$: PUSHL NAM 04 AC DD 00124 PUSHL FAB D1 11 00127 BRB 13\$ 6A 6C FA 00129 16\$: CALLG (AP), (SUC_ROUTINE) 48 11 0012C BRB 20\$ 04 AC DD 0012E 17\$: PUSHL FAB 0705 0705 0705 0705 0705 0706 0707 0707			ÓF	59 E8 0	0117 011A	BLBS S	STATUS, 16\$	0695
1			04	AC DD O	011C	RRU	FAB	
D1 11 00127 BRB 13\$ 6A 6C FA 00129 16\$: CALLG (AP), (SUC_ROUTINE) 48 11 0012C BRB 20\$ 04 AC DD 0012E 17\$: PUSHL FAB 0705 01 FB 00131 CALLS #1, SYS\$SEARCH 59 50 DO 0013B MOVL RO, STATUS 05 59 E9 0013B BLBC STATUS, 18\$ 6A 6C FA 0013E CALLG (AP), (SUC_ROUTINE) 6A 6C FA 0013E CALLG (AP), (SUC_ROUTINE) 7717 7717 7718 7719 7724			04	56 DD 0	0122 15\$:	PUSHL I	NAM FAR	0703
48 11 0012C BRB 20\$:0705 04 AC DD 0012E 17\$: PUSHL FAB :0715 00000000G 00 01 FB 00131 CALLS #1, SYS\$SEARCH :0715 50 DO 0013B MOVL RO, STATUS :0716 6A 6C FA 0013E CALLG (AP), (SUC_ROUTINE) :0717 50 D1 00141 BRB 19\$ FD20 CF 59 D1 00143 18\$: CMPL STATUS, RMSNMF :0719 2C 13 00148 BEQL 20\$				D1 11 0	0127 0129 16\$:	BRB	13\$ (AP), (SUC ROUTINE)	
00000000G 00				48 11 0 AC DD 0	012C 012E 17\$:	BKR (20\$ FAB	0705
05 59 E9 0013B BLBC STATUS, 18\$ 0716 6A 6C FA 0013E CALLG (AP), (SUC_ROUTINE) 0717 30 11 00141 BRB 19\$ 0719 2C 13 00148 BEQL 20\$ 0726		0000000G	00	01 FB 0	0131 0138	CALLS	W1, SYS\$SEARCH RO, STATUS	
FD20 CF 59 D1 00143 18\$: CMPL STATUS, RMSNMF 0719			05 6A	59 E9 0	013B 013E	BLBC	STATUS, 18\$ (AP), (SUC ROUTINE)	0716
2C 13 00148 BEQL 20\$		FD20		30 11 0 59 pl 0	0141	BRB CMPL	193	
20 UU UU14A PUSHL NAM				2C 13 0	0148 014A	BEQL PUSHL	20\$ NAM	0726
2C 13 00148 BEQL 20\$ 56 DD 0014A PUSHL NAM 04 AC DD 0014C PUSHL FAB FD77 CF 02 FB 0014F CALLS #2, COPY_ESL_TO_RSL 6B 6C FA 00154 CALLG (AP), (ERR_ROUTINE) 1A 36 A6 04 E1 00157 BBC #4, 54(NAM), 20\$ 50 04 AC DO 0015C MOVL FAB, R0 24 0C AO D1 0016O CMPL 12(RO), #36		FD77	CF	AC DD O	014C 014F	PUSHL	FAB W2. COPY ESL TO RSL	
6B 6C FA 00154 CALLG (AP), (ERR ROUTINE) 1A 36 A6 04 E1 00157 BBC #4, 54(NAM), 20\$ 0732			6B A6	6C FA 0	0154	CALLG	(AP), (ERR ROUTINE)	0732
FD77 CF 02 FB 0014F CALLS #2, COPY ESL TO RSL 6B 6C FA 00154 CALLG (AP), (ERR ROUTINE) 1A 36 A6 04 E1 00157 BBC #4, 54(NAM), 20\$ 0732 50 04 AC D0 0015C MOVL FAB, R0 0733 24 0C AO D1 00160 CMPL 12(RO), #36			50 04 24 0C	AC DO 0	015C 0160	MOVL !	FAB, RO 12(RO), #36	0733

LIBSFILESCAN VO3-024

LIBSFILESCAN VO3-024	Search a file LIB\$FILE_SCAN	wildcard File scar	segueno n given	e of f	files	м ы	ock 1	6-Sep-1984 4-Sep-1984	00:52 12:38	:15	VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFILSCA.B32;1	Page 2
			50	04 00	10 AC AO	12	00164 00166 0016A	B M C	NEQ OVL MPL	20\$ FAB 12(RO	RO), #36	073
			59 88	04	01 59 AC	D0 E8 DD	00170 00173 00176	19\$: B 20\$: P	OVL LBS USHL	FAB	TATUS S, 17\$	073 074 074
		FCFO	CF 50		58 02 59	FB DO 04	00179 0017B 00180 00183	P C M R	NEQ OVL MPL OVL LBS USHL USHL ALLS OVL	#2, C	OPY_FILE_STRING S, RO	074

; Routine Size: 388 bytes, Routine Base: _LIB\$CODE + 0198

VO

```
LI
```

```
H 13
LIBSFILESCAN
VO3-024
                          Search a file wildcard sequence of files 16-Sep-1984 00:52:15 COPY_RESULT_NAME Copy best name possible to res 14-Sep-1984 12:38:49
                                                                                                                                              VAX-11 Bliss-32 V4.0-742
LLIBRTL.SRCJLIBFILSCA.B32;1
                                       *SBTTL 'COPY_RESULT_NAME Copy best name possible to result string';
ROUTINE COPY_RESULT_NAME (FAB, RESULT_NAME) : NOVALUE =
     66666666666666666668889012345697
                          0748
0749
0750
0751
0752
0753
0754
0756
0757
This routine extracts the best possible result name from the fab/nam block and returns it in the result descriptor.
                                          Inputs:
                                                    fab
                                                                 address of the fab, which must also contain a nam block
                                                    result_name address of the descriptor for the result string
                          Outputs:
                                                   Output string is copied to result_name using lib$s_copy_r_dx
                                       BEGIN
                                       MAP
                                             FAB : REF BLOCK[,BYTE];
                                       BIND
                                             NAM = FAB[FAB$L_NAM] : REF BLOCK[,BYTE];
                                       LOCAL
                                             FNSIZE.
                                             FNADDR:
                                       IF (FNSIZE = .NAM[NAM$B RSL]) NEQ 0
THEN FNADDR = .NAM[NAM$L RSA]
ELSE IF (FNSIZE = .NAM[NAM$B_ESL]) NEQ 0
THEN FNADDR = .NAM[NAM$L_ESA]
                                                   FNSIZE = .FAB[FAB$B_FNS];
FNADDR = .FAB[FAB$L_FNA];
                                                          END:
    698
699
700
                          0784
0785
0786
                                       RETURN LIB$SCOPY_R_DX(FNSIZE,.FNADDR,.RESULT_NAME)
                                       END:
```

```
0004 00000 COPY_RESULT_NAME:
                                                                  Save R2
FAB, R1
40(R1), R0
3(R0), FNSIZE
                                                                                                                                          0749
0770
51
50
7E
             04
28
03
                           DO DO 9A
                                                      MOVL
                     AC
A1
A0
06
A0
14
                                00006
                                                                                                                                          0776
                                                      MOVL
                                0000A
                                                      MOVZBL
                                0000E
                                                      BEQL
                           DO
11
                                00010
52
                                                      MOVL
                                                                   4(RO), FNADDR
                                                                                                                                          0777
             04
                                                      BRB
                                00016 1$:
0001A
0001C
00020
00022 2$:
                     A0
06
A0
08
                                                      MOVZBL
                                                                                                                                          0778
6E
              0B
                                                                   11(RO), FNSIZE
                                                      BEQL
                                                                  12(RO), FNADDR
                           DO
11
                                                      MOVL
                                                                                                                                          0779
52
              00
                                                      BRB
              34
                                                                  52(R1), FNSIZE
                                                                                                                                          0781
                                                      MOVZBL
6E
```

LIBSFILESCAN VO3-024	Search a file wildcard	sequence best name	of f	iles	to	res	16-Sep-19	84 00:52 84 12:38	:15	VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFILSCA.B32;1	Page (9)
		52	80 2C	A1 AC	00	0002	6 35:	MOVL PUSHL	44(R1) RESULT	, FNADDR	; 0782 ; 0785
	0000000G	00	08	AE 03	9F FB 04	0002 0003 0003	6 3\$: D F 2 9	MOVL PUSHL PUSHAB CALLS RET	FNSIZE #3, LI	FNADDR I_NAME E B\$SCOPY_R_DX	0786

; Routine Size: 58 bytes, Routine Base: _LIB\$CODE + 031C

```
LI
VO
```

```
LIBSFILESCAN
VO3-024
                    Search a file wildcard sequence of files 16-Sep-1984 00:52:15 FIND_FILE_CLEANUP Internal routine to do find_f 14-Sep-1984 12:38:49
                                                                                                                 VAX-11 Bliss-32 V4.0-742
LLIBRTL.SRCJLIBFILSCA.B32;1
                              %SBTTL 'FIND_FILE_CLEANUP Internal routine to do find_file cleanup'; ROUTINE FIND_FILE_CLEANUP(CONTEXT) =
   702
703
704
705
706
707
708
710
                    0787
0788
0789
0790
0791
0792
0793
0796
0797
0798
0799
                                         Deallocate the context associated with using LIB$FIND_FILE
                                 Inputs:
                                         context = address of longword containing context pointer
    711
                                 Outputs:
                                         A parse of the null string is done.
                                         Context, related nam blocks, etc, all deallocated. Context
                                         longword is not zeroed.
                    !---
                              BEGIN
                              MAP
                                         CONTEXT : REF VECTOR[,LONG];
   BIND
                                         INTFLAGS = .CONTEXT[0] + INTFLAGS_OFF : BITVECTOR;
                              LOCAL
                                         FAB : REF $BBLOCK,
                                         NAM : REF $BBLOCK.
                                         RNAM : REF $BBLOCK.
                                         BLOCKSIZE:
                               FAB = .CONTEXT[0]:
                                 Deallocate the filename string and the context block
                              BLOCKSIZE = .FAB[FAB$B_FNS];
                                  .FAB[FAB$B_FNS] NEQ 0
AND .FAB[FAB$L_FNA] NEQ 0
                                         LIB$FREE_VM(BLOCKSIZE,FAB[FAB$L_FNA]);
                                 If doing multiple input related file processing, deallocate the related
                                 nam blocks
                               IF .INTFLAGS[0]
                               THEN
                                         BEGIN
                                         NAM = .FAB[FAB$L_NAM];
IF .NAM NEQ 0
                                         THEN
                                                   NAM = .NAM[NAM$L_RLF];
                                         WHILE . NAM NEQ O
                                         DO
                                                   BEGIN
                                                   RNAM = .NAM[NAM$L RLf];
LIB$FREE VM(%REF(NAM$C_BLN+.NAM[NAM$B_RSL]),NAM);
NAM = .RNAM;
                                                   END:
                                         END:
                                 Parse the null string
```

	card sequence of fi Internal routine to STRING(.FAB): M(%REF(CONTEXT_SIZE	K 13	Page 26 (10)
FCE		001C 00000 FIND_FILE_CLEANUP:	0788 0807 0815 0819 0820 0821 0823 0828 0830 0831 0834 0836 0837 0836 0837

; Routine Size: 134 bytes, Routine Base: _LIB\$CODE + 0356

```
L 13
16-Sep-1984 00:52:15
14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                                      Search a file wildcard sequence of files LIBSFIND_FILE Find a file given a file name
                                                                                                                                                                                                                    VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32;1
                                                                                                                                                                                                                                                                                                                    (11)
                                                                                                                                                                                                                                                                                                           Page
                                                         %SBTTL 'LIB$FIND_FILE find a file given a file name';
GLOBAL ROUTINE LIB$FIND_FILE(FILE_NAME.RESULT_NAME.CONTEXT,
DEFAULT_NAME.RELATED_NAME.STV_ADDR.USER_FLAGS) =
      This routine is called with a wildcard file specification, which it searches for, and returns the next resultant file spec.
                                                              Inputs:
                                                                            FILE NAME = File name descriptor address.
RESULT_NAME = Result file name descriptor address.
CONTEXT = Address of a longword containing previous call "context".

= Zero if no previous call.

DEFAULT_NAME = Default file name descriptor address (optional).
RELATED_NAME = Related file name descriptor address (optional).
STV_ADDR = [OPTIONAL] Address of longword to store STV on failing
                                                                            RMS operation
USER_FLAGS = Address of longword of flags to control operation
[OPTIONAL]
                                                                                               BIT 0 (NOWILD) Return an error if a wildcard is input
BIT 1 (MULTIPLE) Perform multiple input file stickyness.

In this mode, the RELATED NAME argument is ignored.
Each time LIB$FIND_FILE is called with a different
file specification, the one from the previous call
is added to the list of related file specifications.
This allows parsing of commands such as
$ENCRYPT FILE1.TYP,FILE*2.TYP...
Use of this feature is required to get the desired
defaulting with searchlists.
                                                                                                                   Note that LIB$FIND_FILE_END must be called between each command line in interactive use or the defaults from the previous command line will affect the next command line.
                                      Implicit inputs:
                                                                             CONTEXT is either 0 or as set up from a previous call to
                                                                             LIBSFIND_FILE.
                                                              Outputs:
                                                                             CONTEXT = Address of internal FAB/NAM buffer.
                                                                             RESULT_NAME = Result file name.
                                                               Implicit outputs:
                                                                             CONTEXT will point to a FAB/NAM block
                                                              Routine values:
                                                                             Any valid RMS error code
                                                                             Error codes returned by LIB$GET_VM
Error codes returned by LIB$SCOPY_R_DX
SHR$_NOWILD with LIB facility code - Wildcard specification parsed
and the NOWILD flag bit was set.
        820
```

LI

```
M 13
16-Sep-1984 00:52:15
14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                                    Search a file wildcard sequence of files LIB$FIND_FILE Find a file given a file name
                                                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32;1
                                                                                                                                                                                                                                                                                                     (11)
                                                                                                                                                                                                                                                                                            Page
                                    BEGIN
                                                      BUILTIN
                                                                         NULLPARAMETER:
                                                      LOCAL
                                                                         STATUS,
STATUS_0,
STATUS_1,
STATUS_2,
BLOCKSIZE
                                                                                                                                                  ! Status
                                                                        BLOCKSTZÉ,
FLAGS: BITVECTOR[32],
INTFLAGS: REF BITVECTOR,
STVADDR: REF VECTOR[,LONG],
FNBUF: REF VECTOR[,BYTE],
FNBUF_SIZ,
FILE_SIZE,
FILE_ADDR,
DEFAULT_ADDR,
RELATED_SIZE,
RELATED_ADDR,
FAB: REF $BBLOCK,
NAM: REF $BBLOCK,
NAM: REF $BBLOCK,
NEXT_STATUS: REF VECTOR[,LON
                                                                                                                                                       Size of request to lib$get/free vm
User flags
Internal flags
                                                                                                                                                      Internal flags
Address of user's stv address
FAB/NAM buffer address
FAB/NAM buffer length
Length of FILE NAME string
Address of FILE NAME string
Length of DEFAULT NAME string
Address of DEFAULT NAME string
Length of RELATED NAME string
Address of RELATED NAME string
Address of RELATED NAME string
FAB address
NAM address
Related NAM address
                                                                                                                                                       Related NAM address
                                                                         NEXT_STATUS : REF VECTOR[,LONG];!
                                                                                                                                                       Status to return next call
                                                      MAP
                                                                         CONTEXT:
FILE_NAME:
RESULT_NAME:
DEFAULT_NAME:
RELATED_NAME:
                                                                                                             REF VECTOR[,LONG],
REF BLOCK[,BYTE],
REF BLOCK[,BYTE],
REF BLOCK[,BYTE],
REF BLOCK[,BYTE];
                                                                                                                                                                         Pointer to context block
                                                                                                                                                                         File name string descriptor
                                                                                                                                                                         Result name buffer descriptor
                                                                                                                                                                         Default name descriptor
                                                                                                                                                                         Related file name string desc
                                                      STATUS = 1;

FILE_SIZE = RELATED_SIZE = DEFAULT_SIZE = 0;

STVADDR = 0;

IF NOT NULLPARAMETER(6)
                                                                                                                                                                         Preset success
                                                                                                                                                                     ! Preset since they are words
                                                      STVADDR = .STV_ADDR;
FLAGS = 0;
IF NOT NULLPARAMETER(7)
                                                       THEN
                                                                         FLAGS = .. USER_FLAGS;
                                                           If the specified previous "context" is zero, then there was no previous call, so the FAB/NAM block buffer needs to be allocated.
                                                      if .context[0] EQL 0
THEN BEGIN
STATUS_0 = LIB$GET_VM(%REF(CONTEXT_SIZE),CONTEXT[0]);
IF NOT .STATUS_0
                                                                         RETURN .STATUS_0;

FNBUF = .CONTEXT[0];

CH$FILL(0,CONTEXT_SIZE,.FNBUF);
                                     0960
0961
```

```
N 13
16-Sep-1984 00:52:15
14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                         Search a file wildcard sequence of files LIBSFIND_FILE Find a file given a file name
                                                                                                                                           VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32:1
                                                                                                                                                                                                          (11)
                                                                                                                                                                                                    Page
                         0962
0963
0964
0965
0966
0967
0968
0969
                                                     Initialize the FAB and NAM blocks
    SFAB_INIT(
                                                                                 = .FNBUF,
= NAM,
                                                                            FAB =
                                                                            FOP
                                                                           NAM = FNBUF[NAM_OFF]);
NAM = FNBUF[NAM_OFF],
RLF = (IF .FLAGS[1] THEN O
ELSE FNBUF[RNAM_OFF]),
                                                   SNAM_INIT(
                                                                                     NAMSC_MAXRSS
                                                                           RSA = FNBUFTRSBUF OFF],
ESS = NAMSC_MAXRSS,
ESA = FNBUFTESBUF OFF]);
NAM = FNBUFTRNAM_OFF]);
                         0971
                         SNAM_INIT(
                                                   (.FNBUF + STATUS_OFF) = 1;
                                      ELSE
                                                  FNBUF = .CONTEXT[0];
                                         Get the block addresses and check the validity of the FAB/NAM buffer.
                                     FAB = .FNBUF;
NAM = FNBUF[NAM_OFF];
RNAM = FNBUF[RNAM_OFF];
NEXT_STATUS = FNBUF[STATUS_OFF];
INTFEAGS = FNBUF[INTFLAGS_OFF];
IF .FAB[FAB$B_BID] NEQ FAB$C_BID
OR .FAB[FAB$B_BLN] NEQ FAB$C_BLN
                                                  RETURN RMS$_FAB;
                                         Remember in context if doing multiple related filename processing
                                      INTFLAGS[0] = .FLAGS[1]:
                                         Get the length and address of the filename string
                                      IF NOT (STATUS_1 = LIB$ANALYZE_SDESC_R2(.FILE_NAME; FILE_SIZE, FILE_ADDR))
                         1001
1002
1003
                                                  RETURN .STATUS_1;
                         1004
1005
1006
1007
1008
1009
    920
921
923
923
924
926
928
928
931
933
933
933
                                         If specified, get the length and address of the default filename string
                                      DEFAULT ADDR = DEFAULT SIZE:
IF NOT NULLPARAMETER (4)
                                                      Analyze default name descriptor if present
                          1011
                         1012
                                                   IF NOT (STATUS = LIB$ANALYZE_SDESC_R2(.DEFAULT_NAME;
                                                                                                     DEFAULT_SIZE, DEFAULT_ADDR))
                         1014
                                                   THEN BEGIN
                                                               COPY_RESULT_NAME(.FAB,.RESULT_NAME);
NEXT_STATUS[0] = .RMSNMF; ! Re
                         1016
1017
1018
                                                                                                                ! Require new FILE_NAME
                                                               RETURN .STATUS;
                                                               END:
```

```
B 14
16-Sep-1984 00:52:15
14-Sep-1984 12:38:49
                        Search a file wildcard sequence of files LIBSFIND_FILE Find a file given a file name
LIBSFILESCAN
VO3-024
                                                                                                                                        VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32:1
                                                                                                                                                                                               Page 30 (11)
    If specified, get the length and address of the related file spec
                                     RELATED_ADDR = RELATED_SIZE;
IF NOT .FLAGS[1]
AND NOT NULLPARAMETER(5)
                                     THEN
                                                 IF NOT (STATUS = LIBSANALYZE_SDESC_R2(.RELATED_NAME;
RECATED_SIZE, RELATED_ADDR))
                                                  THEN BEGIN
                                                             COPY_RESULT_NAME(.FAB,.RESULT_NAME);
NEXT_STATUS[0] = .RMSNMF; ! Re-
                                                                                                              ! Require new FILE_NAME
                         END:
                                        If the specified file-name does not match the previous file-name, or if NOWILD, then set up the new filenames and parse them. (Also check for first call and file-name of all blanks)
                                     IF .FLAGS[0]
                                           OR .INTFLAGS[1]
                                           OR CH$NEQ(.FAB[FAB$B_FNS],.FAB[FAB$L_FNA],

OR CH$FAIL(CH$FIND_NOT_CH(.FILE_SIZE,.FILE_ADDR,' '))
                                           OR
                                                 BIND
                                                              DNAM = FNBUF[DNAM_PTR] : REF $BBLOCK;
                                                 IF (.DNAM EQL 0)
                                                              OR (.DEFAULT_SIZE EQL 0)
                                                 THEN
                                                 ELSE
                                                              NOT CHSEQL (.DEFAULT_SIZE,.DEFAULT_ADDR,
                                                                          .DNAM[NAM$B_RSL],.DNAM[NAM$L_RSA],0)
                                     THEN
                                                 BEGIN
                                                 BIND
                                                              DNAM = FNBUF[DNAM_PTR] : REF $BBLOCK;
                                                    If specified, set the default name.
                                                 IF ((.DEFAULT_SIZE NEQ 0)

AND (.[FNBUF[DNAM_PTR])<0,32,0> EQL 0))

OR (IF .(FNBUF[DNAM_PTR])<0,32,0> NEQ 0

THEN NOT CHSEQL(.DEFAULT_SIZE,.DEFAULT_ADDR,
    978
979
    980
981
982
983
984
985
986
987
988
989
990
                                                                                                   .DNAM[NAMSB_RSL],.DNAM[NAMSL_RSA],0)
                                                                          ELSE 0)
                                                  THEN
                                                              BEGIN
                                                              FAB[FAB$B_DNS] = .DEFAULT_SIZE;
FAB[FAB$L_DNA] = .DEFAULT_ADDR;
                         1071
                         1072
                                                 ELSE
                                                              FAB[FAB$B_DNS] = 0;
                                                  ! If there is a previous name string, then delete it. Then
```

LII

:

```
C 14
16-Sep-1984 00:52:15
14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                           Search a file wildcard sequence of files LIBSFIND_FILE Find a file given a file name
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32:1
                                                                                                                                                                                                                     Page 31 (11)
    992
993
994
995
996
997
998
1000
1001
1002
1006
1006
1007
1010
1011
1013
1014
1015
1016
1017
                                                          allocate space for new filename string.
                            1076
1077
1078
1079
1081
1082
1083
1085
1085
1087
1096
1097
1098
1099
11098
IF (BLOCKSIZE = .FAB[FAB$B_FNS]) NEQ 0
THEN BEGIN
                                                        THEN
                                                                     IF .FLAGS[1]
THEN BEGI
                                                                                   BEGIN
                                                                                   COPY_FILE_STRING(NAM[NAM$L_RLF],.FAB);
                                                                     LIBSFREE VM(BLOCKSIZE, FAB[FAB$L_FNA]);
FAB[FAB$B_FNS] = 0;
                                                     BLOCKSIZE = .FILE SIZE;
FABCFAB$B FNS] = "BLOCKSIZE;
IF .BLOCKSIZE NEQ 0
THEN
                                                                     IF NOT (STATUS_2 = LIB$GET_VM(BLOCKSIZE,FAB[FAB$L_FNA]))
                                                                     THEN
                                                                     RETURN .STATUS_2;
CH$MOVE(.FAB[FAB$B_FNS],.FILE_ADDR,.FAB[FAB$L_FNA]);
                                                                     END:
                                                          If specified, set the related default name.
                                                        IF NOT .FLAGS[1]
                                                       THEN
                                                                     BEGIN
                            1102
1103
1104
1105
1106
1107
   1018
                                                                     IF .RELATED SIZE NEQ O
                                                                     THEN
                                                                                   RNAM[NAM$B_RSL] = .RELATED_SIZE;
RNAM[NAM$L_RSA] = .RELATED_ADDR;
   1020
1021
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                                                                     ELSE
                             1108
1109
1110
                                                                                   RNAM[NAM$B_RSL] = 0;
                                                                     END:
                            1111
1112
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1115
1116
1117
                                                          Parse the file-spec.
                                                       INTFLAGS[1] = 0;
INTFLAGS[2] = 0;
NAM[NAM$V_SVCTX] = 1;
STATUS = $PARSE(FAB = .FAB);
                                                                                                                                          ! Save RMS context
                                                       NEXT STATUSEO] = .STATUS;
                                                                                                                                          ! Save status for next call
                                                        THEN
                                                       IF NOT .STATUS = .FAB(FAB$L_STV);
                                                        THEN
                                                                     COPY_RESULT_NAME(.FAB,.RESULT_NAME);
NEXT_STATUS[0] = .RMSNMF;
                                                                     RETURN .STATUS;
                            1128
1129
1130
                                                                     END:
                                                       END:
                                             If error parsing, or from the last search (could have been RMS$_NMF
                                             set because of no wildcarding) deallocate the context unless MUETIPLE.
```

VO.

.....

```
16-Sep-1984 00:52:15
14-Sep-1984 12:38:49
      LIBSFILESCAN
VO3-024
                                    Search a file wildcard sequence of files LIBSFIND_FILE Find a file given a file name
                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32;1
                                                      The case of a wildcard directory and SS$ NOPRIV is special cased to allow a search to continue even if a particular directory is not accessable.
          1059
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1073
.NEXT_STATUS[0] EQL .RMSNMF
                                                  THEN
                                                                 THEN BEGIN
FIND FILE CLEANUP(.CONTEXT);
CONTEXT[0] = 0;
                                                                 INTFLAGS[1] = 1;
                                                                 RETURN . RMSNMF;
                                                                 END:
                                                      Copy the default file string to a nam block at the end of the list of nam blocks if we have not yet done so. If we already have copied the default string, then just insert it into the
                                                      list of nam blocks at the current location.
                                                  IF .FAB[FAB$B DNS] NEQ 0
                                                                 AND NOT .INTFLAGS[2]
                                                  THEN
                                                                 BEGIN
                                                                 LOCAL
                                                                               NFAB : $FAB_DECL;
                                                                 BIND
                                                                               DNAMPTR = FNBUF[DNAM_PTR] : VECTOR[,LONG];
                                    1160
1161
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1177
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1180
                                                                    Setup a dummy fab for copy_file_string. Point default name pointer in the context block to newly created default nam block
                                                                CH$MOVE(FAB$C_BLN,.FAB,NFAB);
NFAB[FAB$B_FNS] = .FAB[FAB$B_DNS];
NFAB[FAB$L_FNA] = .FAB[FAB$L_DNA];
COPY_FILE_STRING(NAM[NAM$L_R[F],NFAB);
DNAMPTR[0] = .NAM[NAM$L_RLF];
                                                                 END:
                                                  IF .NAM[NAM$V WILD VER]
AND NOT .INTFLAGS[2]
                                                  THEN
                                                                 BEGIN
                                                                 INTFLAGS[2] = 1;
FAB[FAB$B_DNS] = %CHARCOUNT(';*');
FAB[FAB$L_DNA] = WILD_VER;
                                                                 END:
                                                      If the device is non-directory structured, or the file is a PPF file,
                                    1181
1182
1183
                                                      then simply return to the caller and avoid the SEARCH sequence.
                                                  if NOT .(FAB[FAB$L_DEV]) < $BITPOSITION(DEV$V_DIR),1>
AND NOT .NAM[NAM$V_NODE]
OR .(FAB[FAB$L_DEV]) < $BITPOSITION(DEV$V_FOR),1>
OR .NAM[NAM$V_PPF]
                                    1184
1185
                                    1186
1187
1188
1189
                                                  THEN
                                                                 BEGIN
                                                                 NEXT_STATUS[0] = .RMSNMF;
                                                                                                                                                        ! No more files on next call
                                                                 COPY RESULT NAME (.FAB, . RESULT_NAME);
```

```
LIBSFILESCAN
VO3-024
                                                                                                                                                                                               16-Sep-1984 00:52:15
14-Sep-1984 12:38:49
                                                 Search a file wildcard sequence of files LIB$FIND_FILE Find a file given a file name
                                                                                                                                                                                                                                                                      VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32:1
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111
                                                                                                RETURN .STATUS:
                                                 1191
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1199
1200
1201
1202
1203
                                                                                                END:
                                                                              If wildcard processing is not wanted, check for it and return an
                                                                              error if so.
                                                                        IF .FLAGS[0]
AND .NAM[NAM$V_WILDCARD]
                                                                                                BEGIN
                                                                                               NEXT_STATUS[0] = .RMSNMF;
COPY_RESULT_NAME(.FAB,.RESULT_NAME);
RETURN LIBS_NOWILD;
      Search for the next file, unless it is a non-wildcard remote file,
                                                                              in which case, don't bother because it's so expensive.
                                                                         IF NOT (.NAM[NAM$v_NODE] AND NOT .NAM[NAM$v_WILDCARD])
                                                                        THEN
                                                                                                STATUS = $SEARCH(FAB = .FAB);
                                                   210
                                                                              Return the STV in case of an error
                                                                        IF NOT .STATUS
                                                                        AND (.STVADDR NEQ 0)
                                                                        THEN
                                                                                                STVADDR[0] = .FAB[FAB$L_STV];
                                                                              If privilege violation and non-wildcard directory spec then
                                                                              set to return no more files on next call.
                                                                        IF NOT .STATUS AND NOT (.NAM[NAM$V_WILD_DIR] AND (.FAB[FAB$L_STV] EQL SS$_NOPRIV))
                                                                        THEN
                                                                                               BEGIN
                                                                                                NEXT_STATUS[0] = .RMSNMF;
                                                                                                                                                                                                                                              ! No more files on next call
                                                                             If the filespec is non-wildcarded, set status so next call will return no more files.
                                                                         IF NOT .NAM[NAM$V_WILDCARD]
                                                                        THEN
                                                                                                BEGIN
                                                                                               NEXT_STATUS[0] = .RMSNMF;
                                                                              Return the result name. If the result name isn't set, return the expanded
                                                                         COPY_RESULT_NAME(.FAB,.RESULT_NAME);
                                                                              If no more files and not MULTIPLE, deallocate the FAB/NAM buffer
                                                                         IF .STATUS EQL .RMSNMF
                                                                        THEN
       1162
                                                                                               BEGIN
```

Page 34 (11)	
(11)	

LIBSFILESCAN VO3-024	Search LIB\$FIN	a file wildcard sequence of files ID_FILE Find a file given a file name
: 1163 : 1164 : 1165 : 1166 : 1167 : 1168 : 1169	1247 1248 1249 1250 1251 1252 1253	FIND FILE CLEANUP(.CONTEXT); CONTEXTEOJ = 0; END; RETURN .STATUS END;

of files 16-Sep-1984 00:52:15 VAX-11 Bliss-32 V4.0-742 a file name 14-Sep-1984 12:38:49 [LIBRTL.SRC]LIBFILSCA.B32;1

5E 98 AE 9E 00002 MOVAB -104(SP), SP	
01 DD 00006 PUSHL #1	· nusu
10 AE 7C 00008 CLRQ DEFAULT_SIZE 75 7C 0000B CLRQ STVADDR	: 0939 : 0940 : 0941
10 AE 7C 00008 CLRQ DEFAULT_SIZE 75 7C 0000B CLRQ STVADDR 06 6C 91 0000D CMPB (AP), #6 09 1F 00010 BLSSU 1\$	0941
18 AC D5 00012 TSTL 24(AP) 04 13 00015 BEQL 1\$	
6F 18 AC DO 20017 MOVE STV ADDR. STVADDR	0944
07 6C 91 0001E CMPB (AP), #7	0946
1C AC D5 00023 TSTL 28(AP) 05 13 00026 BEQL 2\$	
14 AE 1C BC DO 00028 MOVL QUSER_FLAGS, FLAGS 0C BC D5 0002D 2\$: TSTL QCONTEXT	0948
0094 31 00032 BRW 7\$	
14 AE 031A 8F 3C 00038 MOVZWL #794, 20(SP)	0955
00000000G 00	0956
04 0004B RET	:
031A 8F 00 6E 00 0004C 4\$: MOVL @CONTEXT, FNBUF 00 2C 00050 MOVC5 #0, (SP), #0, #794, (FNBUF) 66 00057	0959 0960
0050 8F 00 6E 00 2C 00058 MOVC5 #0, (SP), #0, #80, (FNBUF)	0966
66 5003 8F BO 00060 MOVW #20483 (FNBUF) 04 A6 01000000 8F DO 00065 MOVL #16777216 4(FNBUF)	
16 A6 02 90 0006D MOVB #2, 22(FNBUF)	
57 50 A6 9E 00075 MOVAB 80(R6), R7 28 A6 57 D0 00079 MOVL R7, 40(FNBUF)	
0060 8F 00 6E 00 2C 0007D MOVES WO, (SP), WO, W96, (R7)	0973
67 6002 8F B0 00085 MOVW #24578, (R7) 02 A7 01 8E 0008A MNEGB #1, 2(R7) 04 A7 020F C6 9E 0008E MOVAB 527(R6), 4(R7)	
67 6002 8F B0 00085 MOVW #24578, (R7) 02 A7 01 8E 0008A MNEGB #1, 2(R7) 04 A7 020F C6 9E 0008E MOVAB 527(R6), 4(R7) 0A A7 01 8E 00094 MNEGB #1, 10(R7) 0C A7 0110 C6 9E 00098 MOVAB 272(R6), 12(R7) 04 14 AE 01 E1 0009E BBC #1, FLAGS, 5\$	
67 6002 8f B0 00085 MOVW #24578, (R7) 02 A7 01 8E 0008A MNEGB #1, 2(R7) 04 A7 020F C6 9E 0008E MOVAB 527(R6), 4(R7) 0A A7 01 8E 00094 MNEGB #1, 10(R7) 0C A7 0110 C6 9E 00098 MOVAB 272(R6), 12(R7) 04 14 AE 01 E1 0009E BBC #1, FLAGS, 5\$	

1B\$F1LES	CAN	Search a	file	wildcard Find a 1	sequ	ence of f	iles le n	ame	1	5 14 5-Sep- 4-Sep-	984 00:52 984 12:38	2:15	VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFILSCA.B32:1	Page ((1
0060	8F		00	10	58 A7 57 6E	0080 0080	58 06 58 00 67	94 11 9E 9E 20	000A3 000A5 000A7 000AC 000B0 000B5	5\$: 6\$:	CLRL BRB MOVAB MOVL MOVAB MOVC5	R8 6\$ 176(R6 R8, 16 176(F)	6), R8 6(R7) NBUF), R7 SP), #0, #96, (R7)	0	097
				030E	67 C6 56 58 57	6002 00 50	8F 01 04	B0 D0 11 D0 9E 9E	000BC 000BD 000C2 000C7	7\$: 8\$:	MOVW MOVL BRB MOVL MOVL	#24578	8, (R7)		097 097 098 098 098 098
				50	58 59 5A 03 8F	0080 030E 0312	B566666878	9E 9E 91 12 91	000C9 000D0 000D4 000D9 000E3 000E8 000EB 000EF		BRB MOVL MOVAB MOVAB MOVAB CMPB BNEQ CMPB BEQL MOVL	7.0	EXT, FNBUF FAB NAM 6), RNAM 6), NEXT STATUS 6), INTFEAGS . #3	:	09 09 09 09
	50 6A	14	AE 01		01 00	0001850C	AB 08 8F 01 50	13 04 EF F0	000F7	9\$: 10\$:	RET	10 \$ #9959	6. RO	0	09
				04 00	AE AE 01	00000000G	AC 00 51 52 50	D0 16 D0 D0 E8 04	0010C 00110 00114		MOVL JSB MOVL MOVL BLBS RET		1, FLAGS, RO 0, #1, (INTFLAGS) NAME, RO NALYZE_SDESC_R2 (SP) 2(SP) S_1, 11\$		09
					55 04	18	AE 6C 1E AC 19	9E 91 1F 05 13	00118 0011C 0011F 00121 00124	115:	CMPB	DEFAUL (AP), 12\$ 16(AP) 12\$	LT_SIZE, DEFAULT_ADDR		10
				08 18	50 AE 55 AE 2A	00000006	AC 050 551 AE 01	DO 16 DO DO DO	00126 0012A 00130 00134 00137		TSTL BEQL MOVL JSB MOVL MOVL MOVL BLBC MOVAB	DEFAUL LIB\$AI RO, SI R2, R1 R1, DE	LT_NAME, RO NALYZE_SDESC_R2 TATUS 5 EFAULT_SIZE	1	10
			27	10	AE AE 05	08 10	AE 01 622 AC 1D	DO E9 9E 91 1F D5	00117 00118 0011C 00117 00124 00126 00130 00137 00137 00146 00146 00151	12\$:	MOVAB BBS CMPB BLSSU TSTL	RELATE #1, FI (AP), 14\$ 20(AP)	LT_NAME, RO NACYZE_SDESC_R2 TATUS EFAULT_SIZE S, 13\$ ED_SIZE, RELATED_ADDR LAGS, 14\$ #5	1	10
				08 10 10	SO OF AE AE OS	0000000G	1D AC 00 50 52 51	16 D0 D0	00157 0015D 00161		BBS CMPB BLSSU TSTL BEQL MOVL JSB MOVL MOVL MOVL BLBS	14\$ RELATE LIB\$AF RO, 51 R2, 10	ED_NAME, RO NALYZE_SDESC_R2 TATUS 6(SP) ELATED_SIZE S, 14\$	1	10
			3A	10	3E 6A 50	08 14 34	AE 101 AE 01 AB	D0 E8 31 E80 9A	00165 00169 00160 00170 00174 00178	13\$: 14\$:	BLBS BRW BLBS BBS MOVZBL	673	17\$ INTFLAGS), 17\$ B), RO	1	10 10 10

LI 1-

1B\$FILESC 03-024	AN	Search a	file FILE	wildcard find a f	sequence	e of	files	ame	1	1 14 5-Sep-198 5-Sep-198	34 00:52 34 12:38	2:15 VAX-11 Bliss-32 V4.0-742 8:49 [LIBRTL.SRC]LIBFILSCA.B32;1	Page 30
04	AE		20	20	BB	00	50 BE	20	00170		CMPC5	RO, a44(FAB), #32, FILE_SIZE, aFILE_ADDR	÷
		OC	BE	04	AE		BE 20 02 51	12 38 12 04	00185 00187 0018D 0018F 00191	15\$:	BNEQ SKPC BNEQ CLRL TSTL BEQL MOVL BEQL TSTL	17\$ #32, FILE_SIZE, @FILE_ADDR 15\$ R1 R1	104
					50	0316	10 C6 11	13 00	00193 00195		MOVL	17\$ 790(FNBUF), RO	104
						18		13 05	0019A 0019C		TSTL	16\$ DEFAULT_SIZE	: 104
	51		00		51 65	03 18 04	AE OC AO AE BO O3	9A 2D	001AB		BEQL MOVZBL CMPC5	3(RO), R1 DEFAULT_SIZE, (DEFAULT_ADDR), #0, R1, - a4(RO) 17\$	105
						^74	0001	31	001AD	16\$:	BNEQ BRW	30\$	1
					50	0316	00D1 C6 AE 04	9E	001B7	17\$:	MOVAB	790(FNBUF), RO DEFAULT_SIZE, R4 18\$	105
							60	D5	001BB 001BD 001BF		MOVL BEQL TSTL	(RO) 19\$ (RO)	106
							60 1A	D5	00161	18\$:	BEQL TSTL BEQL	(RO)	106
					50 51 65	03	60 1A 60 A0 54 B0 0A	00 9A 2D	001C5 001C8		BEQL MOVL MOVZBL CMPC5	20\$ (RO), RO 3(RO), R1 R4, (DEFAULT_ADDR), #0, R1, a4(RO)	106
	51		00		65	04	54 B0	20	001D1				106
				35 30	AB AB		0A 54 55 03 AB AB	13 90 00 11	001D9 001DD	19\$:	BEQL MOVB MOVL BRB	20\$ R4, 53(FAB) DEFAULT_ADDR, 48(FAB) 21\$ 53(FAB)	106 107 106 107
				20	AE	35 34	AB AB	94 9A	001DF 001E2	20 \$: 21 \$:	MOVZBL	52(FAB), BLOCKSIZE	107
			0A	14	AE	10	1F 01 5B	E1 DD	001E7 001E9 001EE		BEQL BBC PUSHL PUSHAR	23\$ #1, FLAGS, 22\$ FAB 16(NAM)	108 108
				FA34	CF	20	02 AB	FB 9F	001F3 001F8 001FB	22\$:	CALLS PUSHAB PUSHAR	#2, COPY FILE_STRING 44(FAB) BLOCKSIZE	108
			0	0000000G	00		02 AB	FB 94	001FE 00205		CALLS	#2, LIB\$FREE_VM 52(FAB)	108
				20 34	AE AB	34 04 20 20	AE AE AE 1R	13 E1 DD 9F 9F 9F 9F 9D 05 13	00208 0020D 00212 00215	23\$:	MOVL MOVB TSTL REQL	FILE SIZE, BLOCKSIZE BLOCKSIZE, 52(FAB) BLOCKSIZE 258	108 108 108 108
			0	0000000G	00 01	24	01 587 02B AE 0AB AE 1BB AE 050	9F 9F FB 04	001DF 001E7 001E9 001F0 001F8 001F8 001F8 0020D2 00215 002217 002217 002237 00237		MOVL BRB CLRB MOVZBL BEQL BBC PUSHAB CALLS CLRB MOVL MOVB TSTL BEQL PUSHAB PUSHAB CALLS BLBS RET	#1, FLAGS, 22\$ FAB 16(NAM) #2, COPY FILE_STRING 44(FAB) BLOCKSIZE #2, LIB\$FREE_VM 52(FAB) FILE_SIZE, BLOCKSIZE BLOCKSIZE, 52(FAB) BLOCKSIZE 25\$ 44(FAB) BLOCKSIZE #2, LIB\$GET_VM STATUS_2, 24\$	109
						34		04 9A	00227 00228	248:	RET MOVZBL MOVC3	52(FAB), RO	1099
		50	BB 14	0¢ 14	50 BE AE	10	AB 50 01 AE 00	9A 28 E0 D5	0022C 00232 00237	25\$:	MOVC3 BBS TSTL	52(FAB), RO RO, afile_ADDR, a44(FAB) #1, FLAGS, 27\$ RELATED_SIZE 26\$	1100

LIBSFILESCAN VO3-024	Search LIB\$FIN	file FILE	wildcard Find a f	seque ile gi	nce of ven a	file	s name	1	1 14 6-Sep- 4-Sep-	1984 00:52 1984 12:38		VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFILSCA.B32:1	Page 3
			03 04	A8 A8	10	AE	90 00 11	0023C		MOVB MOVL	RELA	TED_SIZE, 3(RNAM)	: 110 : 110 : 110 : 111 : 111
				6A	03	A8 06	94 8A	00241 00248 00248 0024B 0024E 00253	26\$: 27\$:	BRB CLRB BICB2	3(RN	IAM) (INTFLAGS)	110
			33	6A A7	80	8F 5B	88	0024E 00253		BISB2 PUSHL	#128 FAB	3, 51 (NAM)	111
		·	0000000G 08	00 AE 69	08	50 AE 6E	94A88DB0053	0025C 00260 00264		MOVL TSTL	RO, STAT STVA	IAM) (INTFLAGS) 3, 51 (NAM) SYS\$PARSE STATUS US, (NEXT_STATUS)	111
			00	BE 12	00 08 08	AB AE AC	13 00 E8 00	00260 00266 00266 00268 0026D 00271	28\$: 29\$:	BICB2 BISB2 PUSHL CALLS MOVL TSTL BEQL MOVL BLBS PUSHL PUSHL CALLS	28\$ 12(F STAT RESU	AB), astvaddr Tus, 30\$ JLT_NAME COPY_RESULT_NAME IMF, (NEXT_STATUS)	112
			FCC5	CF 69	F9A5	AE 0866 BB100 BEC BB2 CF5	DD FB DO 31	00274 00276 00278 00283 00288 00288 00288 00297		PUSHL CALLS MOVL BRW	FAB #2. RMSN 45\$	COPY_RESULT_NAME IMF, (NEXT_STATUS)	112 112 113
			F99C	CF		69	D1 12	00283 00288	30\$:	CMPL BNEQ	(NEX	(T_STATUS), RMSNMF	
		0B	FCE3	AE CF	00	AC O1	D31120DF D8	0028A 0028F		BBS PUSHL CALLS	CONT	FLAGS, 31\$ EXT	113
			1005	6A 50	0C F983	AC 01 BC 02 CF	04 88 04	UUETA	31\$:	CLRL BISB2 MOVL RET	acón #2 RMSN	FÎND_FILE_CLEANUP ITEXT (INTFLAGS) IMF, RO	114 114 114
					35	AB 26	95 13	0029D 002A2 002A3 002A6	32\$:	TSTB BEQL	53(F 33\$	AB)	115
	24	AE AE	58 50	6A 6B AE AE	0050 35 30 24	AB 26 02 8F AB AB	28 90 00	002A6 002A8 002A8 002B8 002B8 002C8 002C8 002C8 002C8 002C8 002C8 002C8 002C8 002C8 002C8 002C8 002C8 002C8 002C8 002C8 002C8		MOVC3 MOVB MOVL	#80, 53(F	(INTFLAGS), 33\$ (FAB), NFAB AB), NFAB+52	115 116 116 116
			F964 0316	CF C6 52 62	10 10 34	A7 02 A7 A7	9F FB DO 9E	002C0 002C8 002CE	33\$:	PUSHAB CALLS MOVL MOVAB	16(N 16(N 52(N	IAM) COPY_FILE_STRING IAM), 790(FNBUF) IAM), R2	119
		11 0D	35	62 6A 6A AB		03 02 04 02	E0 88 90	002D2 002D6 002DA 002DD		BBC BBS BISB2 MOVB	#2. #4.	(R2), 34\$ (INTFLAGS), 34\$ (INTFLAGS) 53(FAB)	117 117 117
		04 08	35 30 40	AB AB	F943	03	9E	002E1	34\$:	MOVAB BBS	WILD	VER, 48(FAB) 64(FAB), 35\$	117
		06		6A AB AB 62 04 11	43 02 F928 08	A727773242FC A727773242FC A7277777777777777777777777777777777777	E8 E9 D0	002F0 002F4 002F8 002FD	35\$: 36\$:	PUSHAB PUSHAB CALLS MOVL MOVAB BBC BBS BISB2 MOVAB BBS BBC BLBS BLBC MOVL PUSHL PUSHL CALLS BRB BLBC MOVL PUSHL PUSHL PUSHL PUSHL	67(F 2(R2 RMSN RESU	AB), NFAB+44 IAM) COPY_FILE_STRING IAM), 790(FNBUF) IAM), R2 (R2), 34\$ (INTFLAGS), 34\$ (INTFLAGS) 53(FAB) VER, 48(FAB) 64(FAB), 35\$ (R2), 36\$ AB), 36\$ P), 37\$ IMF, (NEXT_STATUS) ILT_NAME COPY_RESULT_NAME	117 117 117 117 118 118 118 118
			FC39	CF		5B 02	DD FB	00300		PUSHL	FAB	COPY_RESULT_NAME	
				1B 17 69	14 01 F 90F 08	AE AZ CF	E9 D0 D0	00309 00300 00311	37\$:	BLBC BLBC MOVL	FLAG 1 (R2 RMSN	S. 38\$ 2), 38\$ IMF, (NEXT_STATUS) ULT_NAME	119 119 119 119

LIBSFILESCAN VO3-024	Search a file wildcar LIB\$FIND_FILE find a	d sequer	nce of fi	les e name	, 1	J 14 6-Sep- 4-Sep-	1984 00:52: 1984 12:38:	15 VAX-11 9Liss-32 V4.0-742 149 [LIBRTL.SRC]LIBFILSCA.B32;1	Page 38 (11)
	FC20	CF 50 001	15112A	5B DI 02 FE 8F DI	00319 00318 00320		PUSHL CALLS MOVL RET BBC BLBC PUSHL CALLS	#2, COPY_RESULT_NAME #1380650, RO	1201
	04	62 00	01	11 E1	00328	38\$:	BBC	#17, (R2), 39\$ 1(R2), 40\$	1207
,	00000000			01 FE	3 00332	39\$:	PUSHL	#1. SYS\$SEARCH	1209
	08	AE 1C	08	50 DO AE ES 6E DO 05 1	3 0033D	40\$:	MOVL BLBS TSTL BEQL MOVL BLBS	RO, STATUS STATUS, 43\$ STVADDR 41\$	1213
	00	BE 0F 62 24	00 08 00	AB DO	00345 0034A 0034E	41\$:	MOVL BLBS BBC CMPL	12(FAB), astvaddr STATUS, 43\$ #20, (R2), 42\$ 12(FAB), #36 43\$	1216 1222 1223
		69 05 69	F8C8 01 F8BF	05 13 CF DC A2 E8 CF DC	3 00356 0 00358 3 00350 0 00361 0 00366		CMPL BEQL MOVL BLBS MOVL PUSHL PUSHL CALLS	RMSNMF, (NEXT_STATUS) 1(R2), 44\$ RMSNMF, (NEXT_STATUS) RESULT_NAME	1225 1231 1234 1240
	FBD0 F8AE	CF CF	08	02 FE	0036B		CALLS	#2, COPY_RESULT_NAME STATUS, RMSNMF	1244
	0B 14	AE	ОС	10 12 01 E0 AC DI	00378 0037b		CMPL BNEQ BBS PUSHL CALLS	#1, FLAGS, 45\$ CONTEXT	1245
	FBF5	CF 50	OC	O1 FE BC D4 AE D0	00385	45\$:	CALLS CLRL MOVL RET	CONTEXT #1, FIND_FILE_CLEANUP aCONTEXT STATUS, RO	1248 1251 1253
; Routine Size:	909 bytes, Routin	e Base:	_LIB\$CO	DE + (3DC				

```
Search a file wildcard sequence of files 16-Sep-1984 00:52:15 LIB$FILE_SCAN_END Clean up after LIB$FILE_SCAN 14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                                                                                                                                            VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFILSCA.B32;1
                                                                                                                                                                                                      Page 39 (12)
                                      %SBTTL 'LIB$FILE_SCAN_END Clean up after LIB$FILE_SCAN';
GLOBAL ROUTINE LIB$FILE_SCAN_END(FAB,CONTEXT) =
  This routine is called after using LIB$FILE_SCAN. It performs a parse of the null string to deallocate any saved RMS context. If LIB$FILE_SCAN was directed to perform multiple input file specification processing, the saved file specifications are deallocated.
                                         Calling sequence:
                                                   status.wl = lib$file_scan_end(fab,context.wl.r)
                                         Inputs:
                                                   fab = [OPTIONAL] Address of the FAB used with LIB$FILE_SCAN context = [OPTIONAL] Address of the context used with LIB$FILE_SCAN
                                         Outputs:
                                                   NONE
                                         Implicit outputs:
                                                   Saved context deallocated if context argument is supplied.
                                         Routine values:
                                                   RMSS_FAB
success
                                                                             fab argument is not address of a valid FAB
                                      BEGIN
                                      BUILTIN
                                                   NULLPARAMETER:
                                      LOCAL
                                                   RNAM : REF $BBLOCK,
                                                   NAM : REF $BBLOCK;
                                      MAP
                                                   FAB : REF $BBLOCK,
CONTEXT : REF VECTOR[,LONG];
                                         Ensure it's a FAB
                                      IF NOT NULLPARAMETER(1)
                                      THEN
                                                   BEGIN
                                                   IF .FAB[FAB$B_BID] NEQ FAB$C_BID
OR .FAB[FAB$B_BLN] NEQ FAB$C_BLN
                                                   THEN
                                                                RETURN RMS$_FAB;
                                         Parse the null string
```

```
Search a file wildcard sequence of files 16-Sep-1984 00:52:15
LIB$FILE_SCAN_END Clean up after LIB$FILE_SCAN 14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                                                                                                                                                                    VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32;1
                                                                                                                                                                                                                                       Page 40 (12)
                                                           PARSE_NULL_STRING(.FAB);
  1223012334567
1223334567
1223334567
122444567
12244567
12244567
                                                If supplied, deallocate any input file context
                                                         NULLPARAMETER(2)
BEGIN
NAM = .CONTEXT[0];
WHILE .NAM NEQ 0
                                             IF NOT
                                            THEN
                                                                          BEGIN
                                                                          RNAM = .NAM[NAM$L RLF];
LIB$FREE VM(%REF(NAM$C_BLN+.NAM[NAM$B_RSLJ),NAM);
NAM = .RNAM;
                                                                          END:
                                                               Zero the context
                                                            CONTEXT[0] = 0:
                                                         END;
SS$_NORMAL
                                            END:
                                                                                                               00000
00002
00005
                                                                                                                                                         LIB$FILE_SCAN_END, Save R2 #8, SP (AP)
                                                                                                                                          .ENTRY
SUBL2
                                                                                                                                                                                                                                               1255
                                                                                                       0004
                                                                         5E
                                                                                                                                          TSTB
                                                                                                                                                                                                                                               1301
                                                                                                   6C 24 C 1F AC 60 07
                                                                                                                                          BEQL
TSTL
                                                                                                                00007
                                                                                                                00009
0000C
                                                                                                          D5
                                                                                                                                                         4(AP)
                                                                                         04
                                                                                                                                          BEQL
MOVL
CMPB
BNEQ
CMPB
                                                                                                          00
91
12
91
13
                                                                                                               0000E
00012
00015
00017
0001C
00026
00026
00028
00028
3$:
00030
00032
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00037
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00042
00046
00046
00046
00056
00056
00066
00066
00066
                                                                                                                                                         FAB, RO
(RO), #3
                                                                        50
                                                                                         04
                                                                                                                                                                                                                                               1304
                                                                                                   A0
08
8F
                                                                                                                                                         1(R0), #80
                                                               50
                                                                        8F
                                                                                         01
                                                                                                                                                                                                                                               1305
                                                                                                                                          BEQL
                                                                                                                                                         #99596, RO
                                                                        50 0001850C
                                                                                                          D0
04
                                                                                                                                                                                                                                               1307
                                                                                                                                          RET
                                                                                                          DD
FB
91
                                                                                                   50
01
60
37
                                                                                                                                          PUSHL
                                                                                                                                                                                                                                               1311
                                                                                                                                                         #1. PARSE_NULL_STRING
                                                           F918
                                                                                                                                          CALLS
                                                                        CF
02
                                                                                                                                                         (AP), #2
                                                                                                                                                                                                                                               1316
                                                                                                                                          BLSSU
TSTL
                                                                                                                                                         6$
8(AP)
                                                                                                          05
130
00
100
100
9F
                                                                                                   A3BA240E0FE226C
                                                                                                                                          BEQL
MOVL
                                                                                                                                                         ACONTEXT, NAM
                                                                                                                                                                                                                                               1318
1319
                                                               04
                                                                         AE
50
                                                                                                                                          MOVL
                                                                                                                                                         NAM, RO
                                                                                                                                          BEQL
                                                                                                                                                                                                                                               1321
                                                                         52
                                                                                                                                                         16(RO), RNAM
                                                                                                                                          MOVL
                                                                                                                                          PUSHAB
MOVZBL
ADDL2
PUSHAB
                                                                                                                                                         3(RO), 4(SP)
#96, 4(SP)
4(SP)
                                                                                                           9A
                                                                04
                                                                             00000060
                                                                                                          ÇÖ
9F
                                                                                                                                                         #2. LIBSFREE_VM
                                                    000000006
                                                                         00
AE
                                                                                                                                          CALLS
                                                                                                                                          MOVL
                                                                                                                                          BRB
                                                                                          08
                                                                                                                                                         aCONTEXT
```

LIBSFILESCAN VO3-024

Search a file wildcard sequence of files 16-Sep-1984 00:52:15 LIB\$FILE_SCAN_END Clean up after LIB\$FILE_SCAN 14-Sep-1984 12:38:49

VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFILSCA.B32;1

Page 41 (12)

50

#1, RO

: 1330 : 1331

; Routine Size: 109 bytes, Routine Base: _LIB\$CODE + 0769

```
Search a file wildcard sequence of files 16-Sep-1984 00:52:15 LIB$FIND_FILE_END Clean up after LIB$FIND_FILE 14-Sep-1984 12:38:49
LIBSFILESCAN
VO3-024
                                                                                                                                                                                                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFILSCA.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 42 (13)
                                                                                             %SBTTL 'LIB$FIND_FILE_END Clean up after LIB$FIND_FILE';
GLOBAL ROUTINE LIB$FIND_FILE_END(CONTEXT) =
       This routine is called after using LIB$FIND_FILE. It performs a parse of the null string to deallocate any saved RMS context, and then the allocated context block is deallocated.
                                                                                                     Calling sequence:
                                                                                                                            status.wl = lib$find_file_end(context.wl.r)
                                                                                                     Inputs:
                                                                                                                            context = Address of the context used with LIB$FIND_FILE
                                                                                                    Outputs:
                                                                                                                            NONE
                                                                                                     Implicit outputs:
                                                              13523
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                                                                                                                            Saved context deallocated.
                                                                                                     Routine values:
                                                                                                                            RMS$_FAB
                                                                                                                                                                                          context points to an invalid context block
                                                                                                                            success
                                                                                             BEGIN
                                                                                             MAP
                                                                                                                            CONTEXT : REF VECTOR[,LONG];
                                                                                            LOCAL
                                                                                                                            FAB : REF $BBLOCK;
                                                                                                   If context is 0, nothing to do
                                                                                             IF .CONTEXT[0] EQL 0
                                                                                             THEN
                                                                                                                            RETURN SS$_NORMAL;
                                                                                                    Ensure that context points to a FAB
                                                                                            FAB = .CONTEXT[0];
IF .FAB[FAB$B_BID] NEQ FAB$C_BID
OR .FAB[FAB$B_BLN] NEQ FAB$C_BLN
                                                                                                                            RETURN RMS$_FAB;
                                                                                                    Do most of the work
                                                                                             FIND_FILE_CLEANUP(.CONTEXT);
                                                                                                     Zero the context pointer
                                                                                             CONTEXT[0] = 0;
RETURN SS$_NORMAL
```

LIBSFILESCAN VO3-024 ; 1307	Search a file wildcar LIB\$FIND_FILE_END Cle 1389 1 END;	d sequence of t an up after LIE	files B\$FIND_FILE	B 15 16-Sep-1984 14-Sep-1984	4 00:52 4 12:38	:15 VAX-11 Bliss-32 V4. :49 [LIBRTL.SRC]LIBFILS	0-742 CA.832;1 Page 43
	50 FB58	52 04 50 03 8F 01 50 0001850C CF 50	52 DD 000 01 FB 000 62 D4 000 01 D0 000	002 006 008 00A 00D 012 017 019 18:	ENTRY MOVL TSTL BEQL MOVL CMPB BNEQ CMPB BNEQ CMPB CMPB CMPB CMPB CMPB CMPB CMPB CMPB	LIBSFIND_FILE_END, Save R CONTEXT, R2 (R2) 3\$ (R2), FAB (FAB), #3 1\$ 1(FAB), #80 2\$ #99596, R0 R2 #1, FIND_FILE_CLEANUP (R2) #1, R0	2 : 1333 1369 : 1375 : 1376 : 1377 : 1379 : 1383 : 1388 : 1389
			04 00	120			내내가 2012년 1일
; Routine Size ; 1308	: 46 bytes, Routine	Base: _LIB\$C	DDE + 07D6	,			
		Base: _LIB\$CO	DDE + 07D6	FMG\$FILE_		LIB\$FILE_SCAN	
		PSECT SUMMARY	DDE + 07D6			LIB\$FILE_SCAN	
; 1308	1390 O END ELUDOM	PSECT SUMMARY	DDE + 07D6	FMG\$FILE.	_SCAN==	LIB\$FILE_SCAN REL, CON, PIC,ALIGN(2)	
; 1308	1390 O END ELUDOM Byte	PSECT SUMMARY	DDE + 07D6	FMG\$FILE.	_SCAN==		
; 1308	1390 O END ELUDOM Byte	PSECT SUMMARY S 2052 NOVEC, NOV	DDE + 07D6	FMG\$FILE. Attributes EXE, SWR,	_SCAN==	REL, CON, PIC,ALIGN(2) Processing	

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